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NATIONAL CLIMATIC CENTER ASHEVILLE NC

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WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME I--ETC(U)

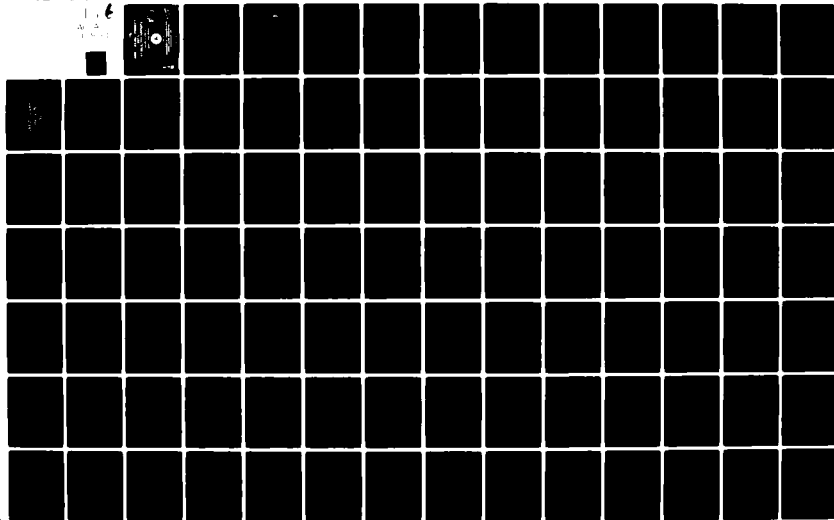
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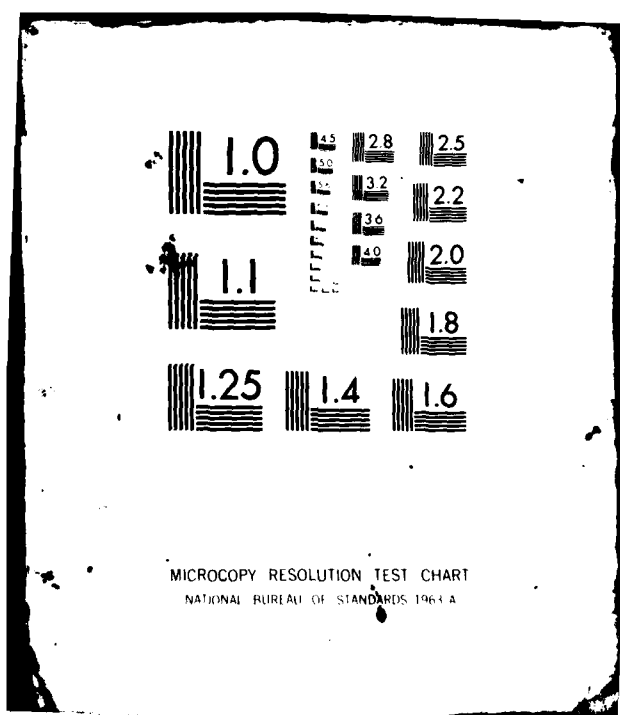
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AD A108160

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WIND-CEILING-VISIBILITY
DATA
AT SELECTED AIRPORTS

March 1981

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This report has been prepared by the U. S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data and Information Service, National Climatic Center, Asheville, North Carolina for the Office of Aviation Policy and Plans, Federal Aviation Administration under Interagency Agreement No. DOT-FA79WAI-057. The contents of this report reflect the views of the contractor, who is responsible for the facts and accuracy of the data presented herein, and do not necessarily reflect the official views or policy of the FAA. This report does not constitute a standard, specification or regulation.

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DTIC TAB	<input type="checkbox"/>
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FOREWORD

INTRODUCTION

Summary tables and graphs have been prepared to assist the FAA in the application of establishment criteria for precision and non-precision approach and landing aids. These tables and graphs depict wind direction and speed under specified ceiling and visibility conditions. This report has been prepared by the National Climatic Center for the FAA under Interagency Agreement No. DOT-FA79WAI-057.

Climatological information for selected airports is presented in 11 volumes:

- Volume 1 - New England Region (ANE)
- Volume 2 - Eastern Region (AEA)
- Volume 3 - Southern Region (ASO)
- Volume 4 - Great Lakes Region (AGL)
- Volume 5 - Central Region (ACE)
- Volume 6 - Southwest Region (ASW)
- Volume 7 - Rocky Mountain Region (ARM)
- Volume 8 - Northwest Region (ANW)
- Volume 9 - Western Region (AWE)
- Volume 10 - Alaskan and Pacific Regions (AAL and APC)
- Volume 11 - Visibility Time Series for Key Stations

Summary tables and graphs are presented in volumes 1-10. Graphical time series of visibility measurements for key stations throughout the United States are presented in volume 11 to give the reader some insight into the climate variability that can be expected.

ELEMENT CLASSIFICATION

Twelve tables for each station depict wind direction vs. wind speed distributions. Half the tables show daytime distributions for six ceiling-visibility classes, and half show nighttime distributions for the same six ceiling-visibility classes. A graphical depiction of the data in each table is also presented. An additional graph for each station depicts the combined day and night winds for all ceiling-visibility conditions.

Wind direction is grouped according to a 16-point compass (N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW) plus calm. The wind speed groups are 0-3, 4-12, 13-15, 16-18, 19-24, 25-31 and equal to or greater than 32 mph.

The ceiling-visibility criteria are defined as:

CLASS 1 = ceiling equal to or greater than 1500 feet and visibility equal to or greater than 3 miles.

CLASS 2 = ceiling less than 1500 feet and/or visibility less than 3 miles.

CLASS 3 = ceiling less than 1500 feet and/or visibility less than 3 miles, but ceiling equal to or greater than 400 feet and visibility equal to or greater than 1 mile.

CLASS 4 = ceiling less than 400 feet and/or visibility less than 1 mile, but ceiling equal to or greater than 200 feet and visibility equal to or greater than 1/2 mile.

CLASS 5 = ceiling less than 200 feet and/or visibility less than 1/2 mile, but ceiling equal to or greater than 100 feet and visibility equal to or greater than 1/4 mile.

CLASS 6 = ceiling less than 100 feet and/or visibility less than 1/4 mile.

CLASS 7 = all ceiling and visibility conditions; sum of classes 1 and 2; also the sum of classes 1 and 3 through 6.

Time conditions are determined from the onset of civil twilight in the morning to the end of civil twilight in the evening. Civil twilight begins (ends) when the sun is six degrees below the horizon. It covers the somewhat indefinite period before sunrise and after sunset during which natural illumination usually remains sufficient for ordinary outdoor operations. For this report the morning (evening) times of beginning (ending) of civil twilight at a station are determined for the middle of a month. All data within this month are classified as either day or night according to these times.

DATA

The data used in the preparation of the climatological tables and graphs were extracted from the National Climatic Center's Tape Deck 1440 Hourly Surface Observations. The data contained in this deck have been digitized from the official observations recorded on station. From about 1948 through 1964 data were digitized for each hour in a day. From 1965 onward only every third hour's data were digitized. The tables and graphs in this report are based on eight observations per day (every third hour) for

the entire period of record. This was done to eliminate the data bias problems that would have been created by trying to mix the 24 observations per day prior to 1965 with the 8 observations per day after 1964.

The effect on the climatology of not using all the available data was examined for representative key stations in each region. Monthly day and night distributions were prepared for all ceiling-visibility criteria and wind speed and direction groups using 24 observations per day. A data subset was created by extracting every third observation from the hourly data set, and similar frequency distributions were prepared. The Kolmogorov-Smirnov test was applied to evaluate the hypotheses that distributions using 24 observations per day are statistically the same as distributions using 8 observations per day. The results of this procedure indicate equality

of distributions in most cases. Therefore, no significant information has been lost by basing the climatologies on 8 observations per day. Exceptions are discussed in Volume II.

The tables and graphs are also available on microfiche, and the summarized data are available on magnetic tape. This report presents annual summaries, but monthly summaries can be generated on magnetic tape. Requests for microfiche copies of this report and for data on magnetic tape should be addressed to:

Director
National Climatic Center
Federal Building
Asheville, NC 28801

The requested microfiche copies and/or tapes will be provided at cost.

TABLE LEGEND

A = number of day (night) observations in a given ceiling-visibility class, wind speed class and direction divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6, all wind speed classes and directions times 100.

B = number of day (night) observations in a given ceiling-visibility class, wind speed class and direction divided by the total number of day (night) observations in the given ceiling-visibility class and direction times 100.

C = number of day (night) observations of a given direction divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6 times 100.

D = number of day (night) observations of a given direction divided by the total number of day (night) observations in the given ceiling-visibility class times 100.

E = number of day (night) observations in a given wind speed class divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6 times 100.

F = number of day (night) observations in a given wind speed class divided by the total number of day (night) observations in the given ceiling-visibility class times 100.

G = number of day (night) observations in the given ceiling-visibility class divided by the total number of day (night) observations in ceiling-visibility classes 1, 3-6 times 100.

100 = summation of column D = summation of row F.

H = average wind speed for the given day (night) ceiling-visibility class and direction.

I = average wind speed for the given day (night) ceiling-visibility class.

J = overall period of record; see station list for actual years of record used.

Note: Ceiling-visibility class 2 is the sum of classes 3-6.

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BOR BRIDGEPORT, CT

PERIOD: 1949-1978

CLASS 1 / DAY

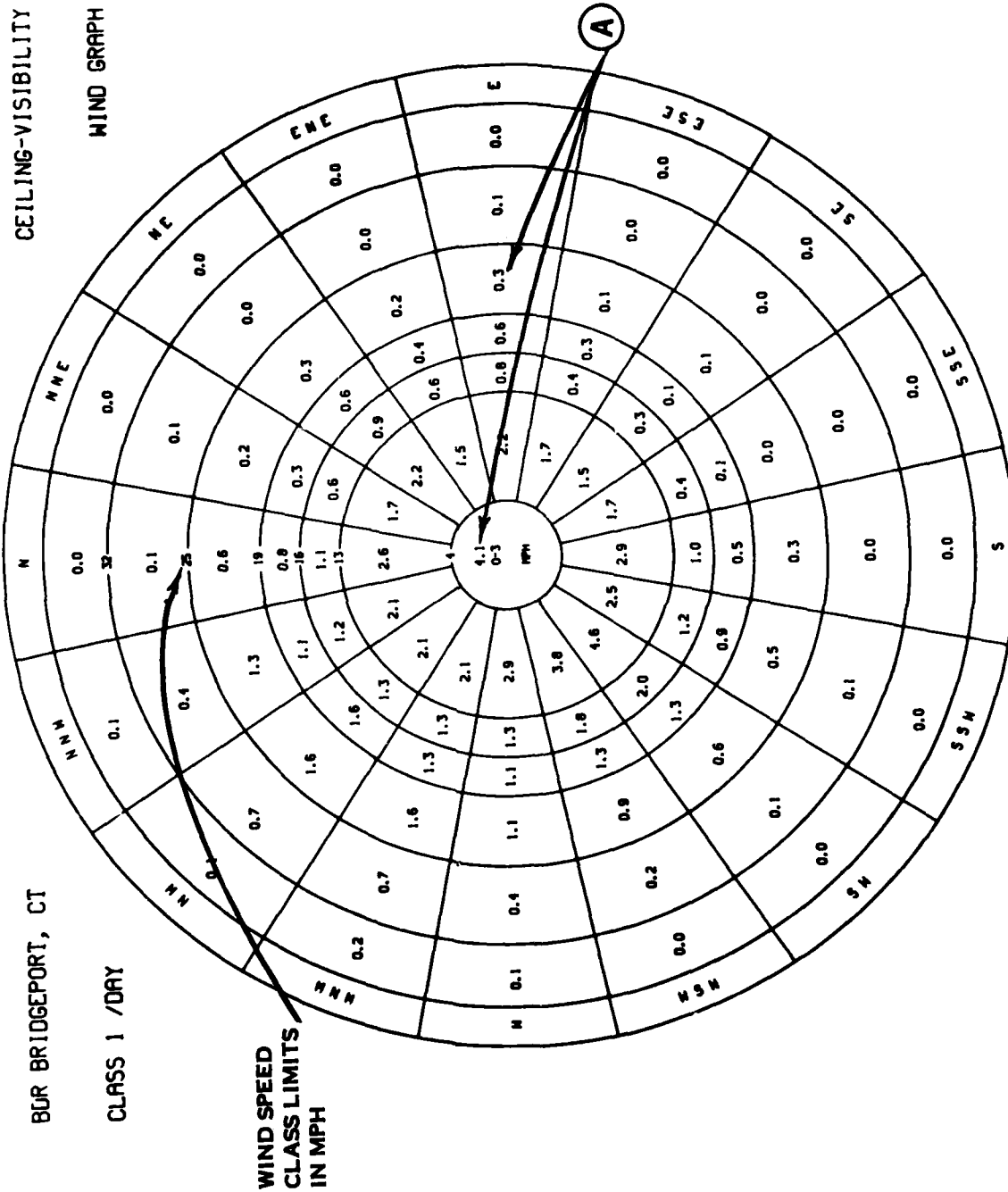
STATION NUMBER: 94702

NO. OBS.: 29909

DIR	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
																	C
N	.3	.3	2.6	3.1	1.1	1.4	.2	.9	.6	.8	.1	.1	.0	.0	5.5	6.6	12.6
NNE	.2	.3	1.7	2.1	.6	.7	.3	.4	.2	.3	.1	.1	.0	.0	3.2	3.8	11.3
NNE	.3	.4	2.2	2.6	.9	1.0	.6	.7	.3	.4	.0	.0	.0	.0	4.3	5.1	11.5
ENE	.2	.2	1.5	1.9	.6	.7	.4	.5	.2	.3	.0	.1	.0	.0	3.0	3.5	11.7
E	.2	.2	2.2	2.6	.8	1.0	.6	.7	.3	.4	.1	.1	.0	.0	4.2	5.0	11.9
ESE	.1	.1	1.7	2.0	.4	.5	.3	.3	.2	.2	.0	.0	.0	.0	2.7	3.2	10.9
SE	.2	.2	1.5	1.7	.4	.5	.1	.2	.1	.1	.0	.0	.0	.0	2.2	2.6	9.8
SSE	.1	.1	1.7	2.0	.4	.5	.1	.2	.1	.1	.0	.0	.0	.0	2.3	2.8	9.8
S	.2	.2	2.9	3.5	1.3	1.5	.5	.6	.3	.4	.0	.0	.0	.0	5.0	5.9	11.4
SSW	.1	.1	2.5	3.0	1.2	1.4	.9	1.1	.5	.6	.1	.1	.0	.0	5.3	6.3	12.8
SW	.2	.3	4.6	5.4	2.0	2.4	1.3	1.6	.6	.7	.1	.1	.0	.0	8.8	10.5	12.1
WSW	.2	.2	3.8	4.5	1.8	2.2	1.3	1.5	.9	1.0	.2	.2	.0	.0	8.1	9.6	13.1
W	.1	.2	2.9	3.5	1.3	1.6	1.1	1.4	1.1	1.3	.4	.5	.1	.1	7.1	8.5	14.4
WNW	.2	.2	2.1	2.5	1.3	1.6	1.3	1.6	1.6	1.9	.7	.9	.2	.2	7.5	8.8	16.3
NW	.2	.3	2.1	2.5	1.3	1.6	1.6	1.8	1.6	1.9	.7	.9	.1	.2	7.7	9.2	16.0
NMW	.2	.2	2.1	2.5	1.2	1.4	1.1	1.3	1.3	1.5	.4	.5	.1	.1	6.3	7.5	15.1
CALM	1.1	1.3													1.1	1.3	
TOTAL	4.1	4.8	38.2	45.3	16.4	19.5	12.3	14.6	9.8	11.7	3.0	3.5	.6	.7	84.3	100	13.0

SAMPLE

(A) (B) (C) (D) (E) (F) (G) (H) (I) (J)



A—NUMBER OF DAY (NIGHT) OBSERVATIONS IN A GIVEN CEILING—VISIBILITY CLASS, WIND SPEED CLASS AND DIRECTION DIVIDED BY THE TOTAL NUMBER OF DAY (NIGHT) OBSERVATIONS IN CEILING—VISIBILITY CLASSES 1, 3–6, ALL WIND SPEED CLASSES AND DIRECTIONS TIMES 100.

STATION LIST

ST CITY	AP ID	STATION NUMBER	PERIOD OF RECORD
IL			
Chicago	MDW	14819	1948-1978
Chicago	ORD	94846	1949-1978
Moline	MLJ	14923	1949-1978
Peoria	PIA	14842	1948-1951 1957-1978
Rockford	RFD	94822	1952-1954 1959-1978
Springfield	SPJ	93822	1948-1978
IN			
Evansville	EWV	93817	1948-1978
Fort Wayne	FWA	14827	1948-1978
Indianapolis	IND	93819	1948-1978
South Bend	SBN	14848	1948-1978
Terre Haute	HUF	93823	1948-1951 1953-1954 1973-1977*
MI			
Alpena	APN	94849	1966-1978
Detroit	DET	14822	1948-1978
Detroit	DTW	94847	1959-1978
Flint	FNT	14826	1949-1978
Grand Rapids	GRR	94860	1964-1978
Houghton Lake	HTL	94814	1965-1978
Lansing	LAN	14836	1949-1954 1960-1978
Muskegon	MKG	14840	1948-1952 1960-1978
Saginaw	MBS	14845	1949-1954 1974-1978
Sault Ste Marie	SSM	14847	1948-1978
Traverse City	TVC	14850	1949-1978

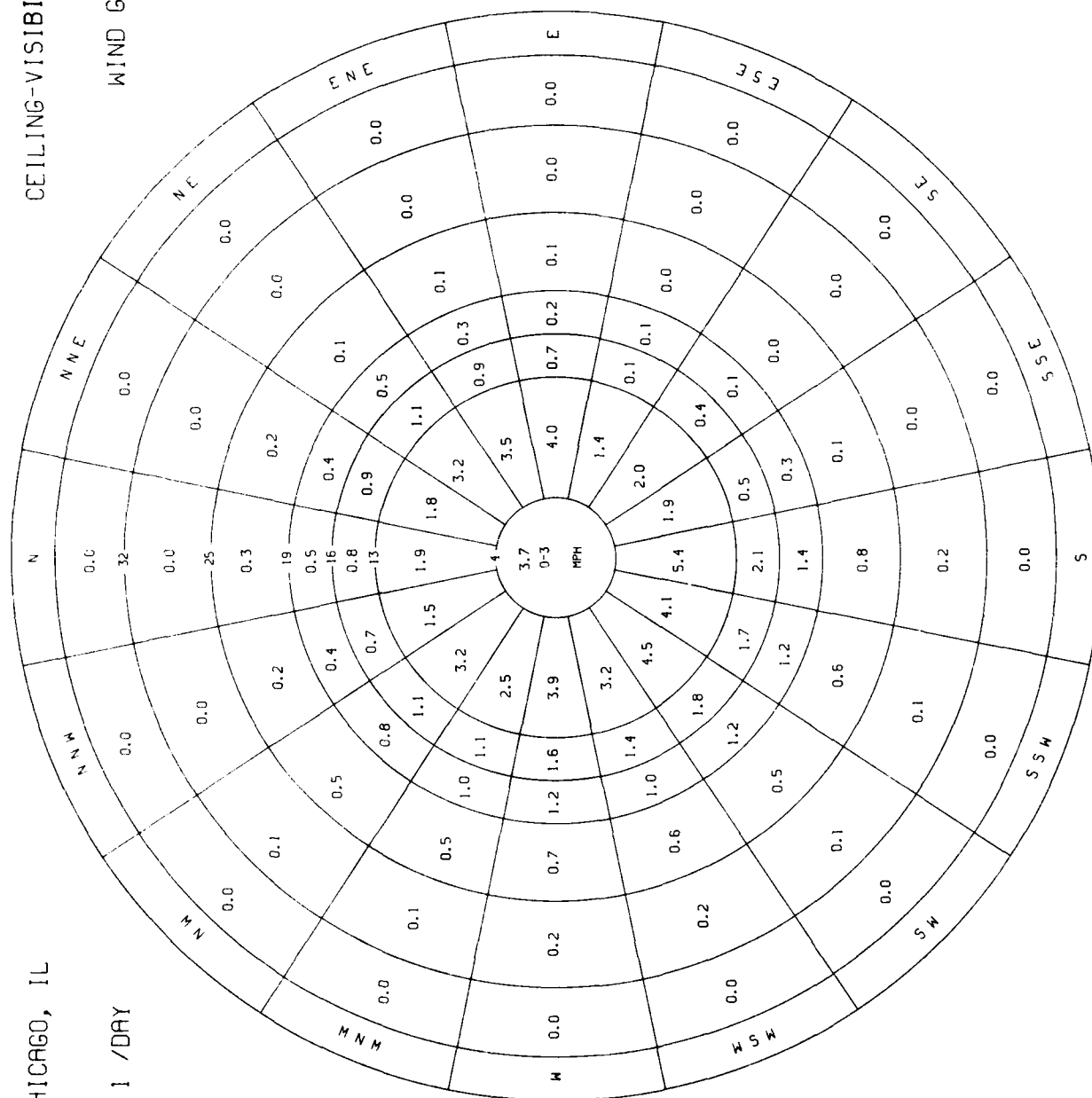
MN	Duluth	DIH	14913	1948-1978
	International Falls	INL	14918	1948-1978
	Minneapolis St Paul	MSP	14922	1948-1978
	Rochester	RST	14925	1961-1978
OH	Akron	CAK	14895	1949-1978
	Cincinnati	CVG	93814	1948-1978
	Cleveland	CLE	14820	1948-1978
	Columbus	CMH	14821	1948-1978
	Dayton	DAY	93815	1948-1978
	Mansfield	MGD	14891	1949-1954 1967-1978
	Toledo	TOL	94830	1959-1978
	Youngstown	YNG	14852	1948-1978
WI	Eau Claire	EAU	14991	1950-1978
	Green Bay	GRB	14898	1950-1978
	La Crosse	LSE	14920	1951-1978
	Madison	MSN	14637	1948-1978
	Milwaukee	MKE	14639	1948-1978

* Note: Period of record does not end in 1978.

GREAT LAKES REGION (AGL)

MDW CHICAGO, IL

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS: /ER

STATION NUMBER: 14819

NO. OBS.: 41657

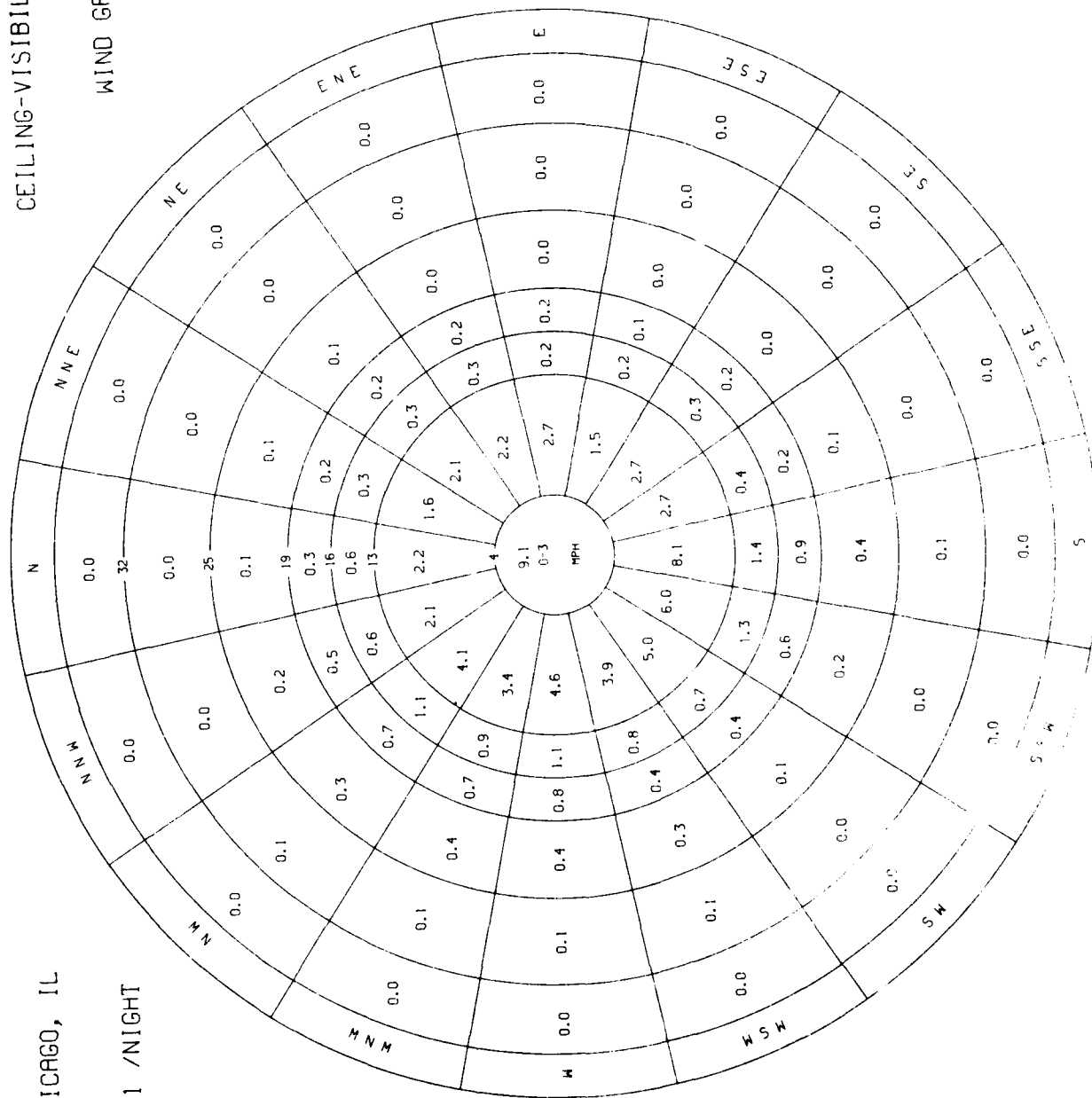
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+				TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		
N	.1	.1	1.9	2.3	.2	.9	.5	.6	.3	.3	.0	.0	.0	.0	3.6	4.2	12.1
NNE	.1	.1	1.8	2.1	.9	1.0	.4	.5	.2	.2	.0	.0	.0	.0	3.3	3.9	12.0
NE	.2	.2	3.2	3.7	1.1	1.3	.5	.5	.1	.2	.0	.0	.0	.0	5.1	6.0	11.0
ENE	.1	.1	3.5	4.1	.9	1.0	.3	.3	.1	.1	.0	.0	.0	.0	4.8	5.6	10.2
E	.2	.3	4.0	4.6	.7	.8	.2	.2	.1	.1	.0	.0	.0	.0	5.1	6.0	9.5
ESE	.1	.1	1.4	1.6	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.7	2.0	8.7
SE	.2	.2	2.0	2.3	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.1	9.1
SSE	.1	.1	1.9	2.2	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	2.9	3.4	10.4
S	.3	.3	5.4	6.3	2.1	2.5	1.4	1.6	.8	1.0	.2	.2	.0	.0	10.1	11.9	12.2
SSW	.2	.2	4.1	4.8	1.7	2.0	1.2	1.4	.6	.7	.1	.1	.0	.0	7.9	9.3	12.3
SW	.2	.3	4.5	5.3	1.8	2.1	1.2	1.4	.5	.6	.1	.1	.0	.0	8.4	9.8	11.9
WSW	.1	.2	3.2	3.7	1.4	1.7	1.0	1.2	.6	.7	.2	.2	.0	.0	6.5	7.6	12.7
W	.3	.3	3.9	4.6	1.6	1.9	1.2	1.4	.7	.9	.2	.2	.0	.0	7.9	9.3	12.5
WNW	.2	.2	2.5	2.9	1.1	1.3	1.0	1.1	.5	.6	.1	.1	.0	.0	5.3	6.3	12.7
NW	.2	.2	3.2	3.8	1.1	1.3	.8	1.0	.5	.6	.1	.1	.0	.0	6.0	7.0	12.0
NNW	.1	.1	1.5	1.7	.7	.8	.4	.5	.2	.3	.0	.0	.0	.0	2.8	3.3	12.3
CALM	1.1	1.3													1.1	1.3	
TOTAL	3.7	4.4	47.8	56.1	16.8	19.7	10.4	12.2	5.3	6.2	1.0	1.2	.1	.2	85.2	100	11.5

CEILING-VISIBILITY

WIND GRAPH

MDW CHICAGO, IL

CLASS 1 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MDW CHICAGO, IL

CLASS 1 / NIGHT

NO. OBS.: 35907

STATION NUMBER: 14819

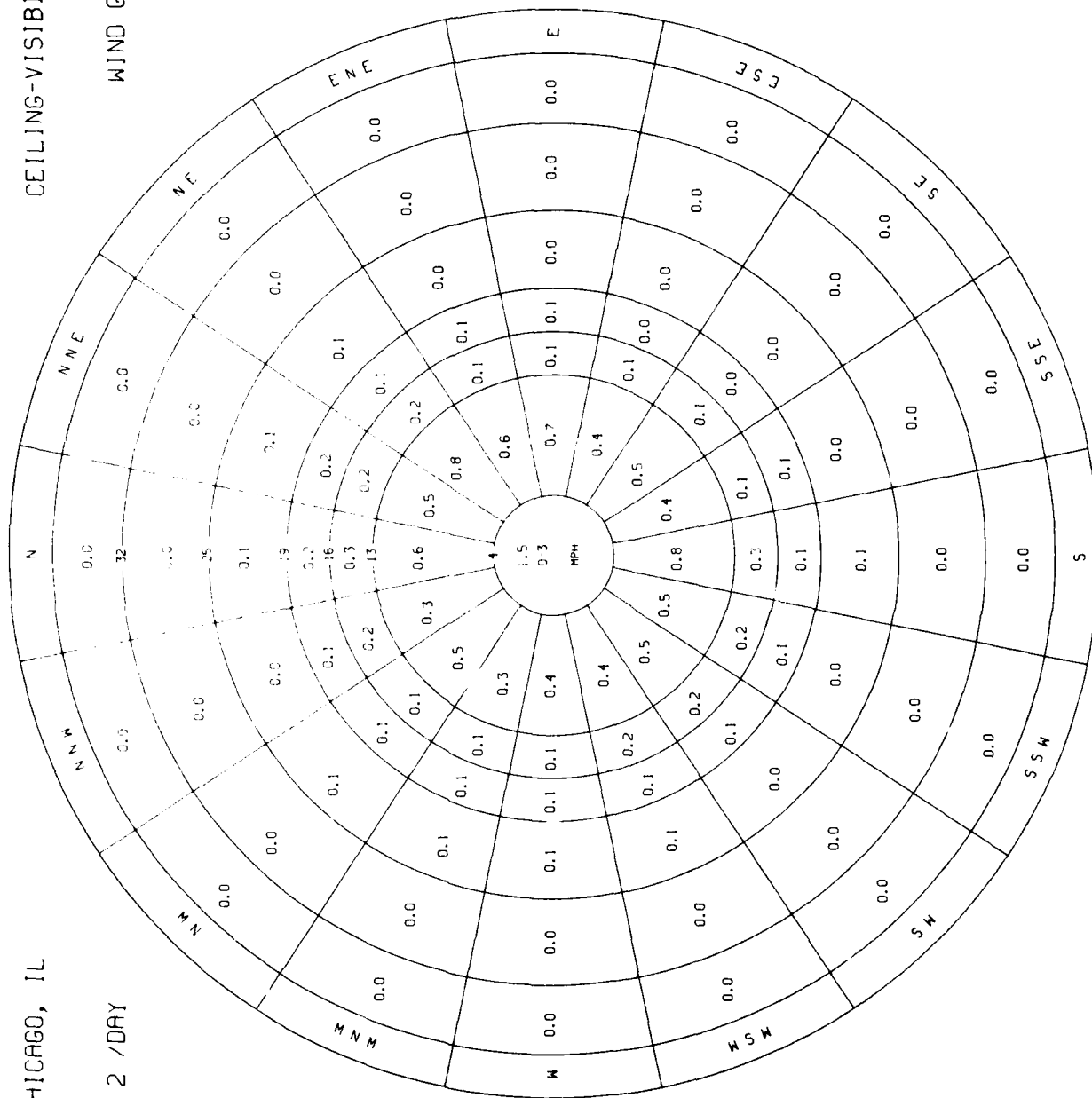
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	.2	2.2	2.6	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.4 4.0 10.4
NNE	.2	.2	1.5	1.9	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	2.5 3.0 9.9
NE	.4	.5	2.1	2.5	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	3.3 3.8 9.1
ENE	.4	.4	2.2	2.6	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	3.1 3.7 8.5
E	.7	.8	2.7	3.2	.2	.3	.2	.2	.0	.0	.0	.0	.0	.0	3.8 4.5 7.6
ESE	.4	.4	1.5	1.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.1 2.5 7.6
SE	.6	.7	2.7	3.2	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.8 4.5 7.9
SSE	.3	.4	2.7	3.2	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.6 4.3 9.0
S	.8	.9	8.1	9.6	1.4	1.6	.9	1.0	.4	.5	.1	.1	.0	.0	11.7 13.8 9.8
SSW	.4	.4	6.0	7.1	1.3	1.5	.6	.7	.2	.3	.0	.1	.0	.0	8.6 10.1 9.9
SW	.4	.5	5.0	5.9	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	6.7 7.9 9.0
WSW	.3	.3	3.9	4.6	.8	.9	.4	.5	.3	.3	.1	.1	.0	.0	5.7 6.7 10.3
W	.5	.6	4.6	5.5	1.1	1.3	.8	.9	.4	.5	.1	.1	.0	.0	7.6 9.0 10.8
WNW	.3	.4	3.4	4.0	.9	1.1	.7	.8	.4	.4	.1	.1	.0	.0	5.8 6.9 11.1
NW	.5	.6	4.1	4.9	1.1	1.3	.7	.8	.3	.4	.1	.1	.0	.0	6.7 7.9 10.5
NNW	.1	.2	2.1	2.5	.6	.7	.5	.6	.2	.3	.0	.0	.0	.0	3.7 4.3 11.6
CALM	2.7	3.1													2.7 3.1
TOTAL	9.1	10.8	55.1	65.0	10.4	12.3	6.5	7.6	2.9	3.5	.6	.7	.1	.1	84.7 100 9.5

CEILING-VISIBILITY

WIND GRAPH

MDW CHICAGO, IL

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MDW CHICAGO, IL

CLASS 2 / DAY

NO. OBS.: 7135

STATION NUMBER: 14819

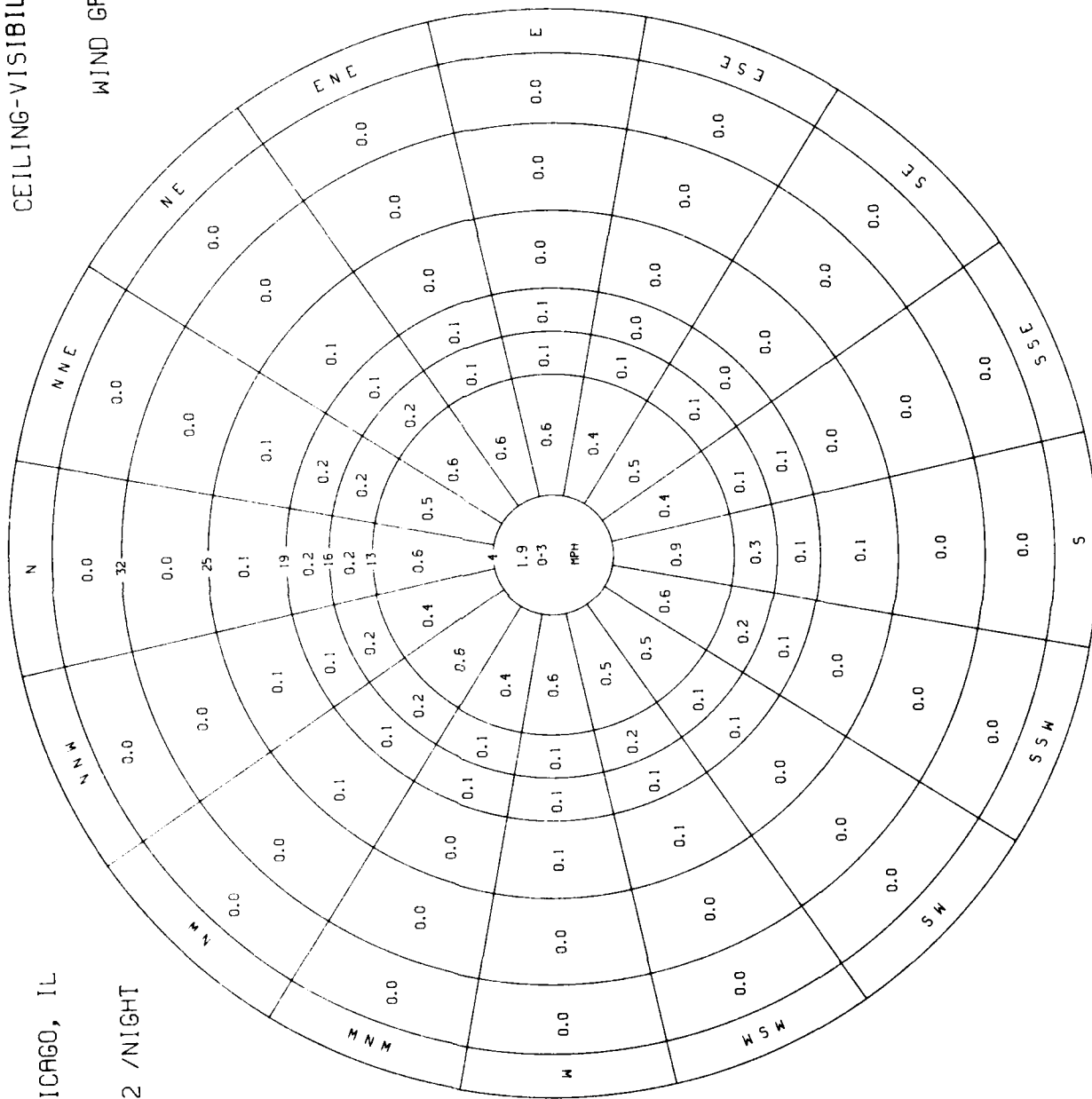
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.6	3.9	.3	1.9	.2	1.1	.1	.9	.0	.2	.0	.0	1.2 8.3 12.6
NNE	.1	.4	.5	3.3	.2	1.3	.2	1.1	.1	.5	.0	.1	.0	.0	1.0 6.6 11.9
NE	.1	.7	.8	5.2	.2	1.4	.1	.8	.1	.4	.0	.1	.0	.0	1.3 8.7 10.5
ENE	.1	.4	.6	4.3	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	1.0 6.6 10.1
E	.1	.8	.7	5.0	.1	.6	.1	.4	.0	.3	.0	.0	.0	.0	1.1 7.2 9.0
ESE	.1	.4	.4	2.7	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6 3.7 8.7
SE	.1	.7	.5	3.6	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.8 5.3 8.7
SSE	.0	.3	.4	2.7	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.6 4.2 10.1
S	.1	.5	.8	5.6	.3	1.9	.1	1.0	.1	.5	.0	.1	.0	.0	1.4 9.5 10.8
SSW	.1	.4	.5	3.3	.2	1.1	.1	.5	.0	.3	.0	.0	.0	.0	.8 5.7 10.3
SW	.0	.3	.5	3.3	.2	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.8 5.6 11.2
WSW	.0	.3	.4	2.7	.2	1.1	.1	.7	.1	.4	.0	.1	.0	.0	.8 5.4 12.0
W	.1	.7	.4	2.8	.1	.9	.1	.6	.1	.5	.0	.2	.0	.0	.9 5.7 11.3
WNW	.0	.3	.3	2.1	.1	.7	.1	.6	.1	.4	.0	.0	.0	.0	.6 4.1 11.3
NW	.1	.5	.5	3.4	.1	.9	.1	.6	.1	.4	.0	.1	.0	.0	.9 5.9 10.8
NNW	.0	.3	.3	2.3	.2	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.7 4.8 12.0
CALM	.4	2.6													.4 2.6
TOTAL	1.5	9.9	8.3	52.2	2.5	16.6	1.5	10.4	.8	5.6	.2	1.1	.0	.2	14.8 100 10.5

CEILING-VISIBILITY

WIND GRAPH

MDW CHICAGO, IL

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 2 / NIGHT

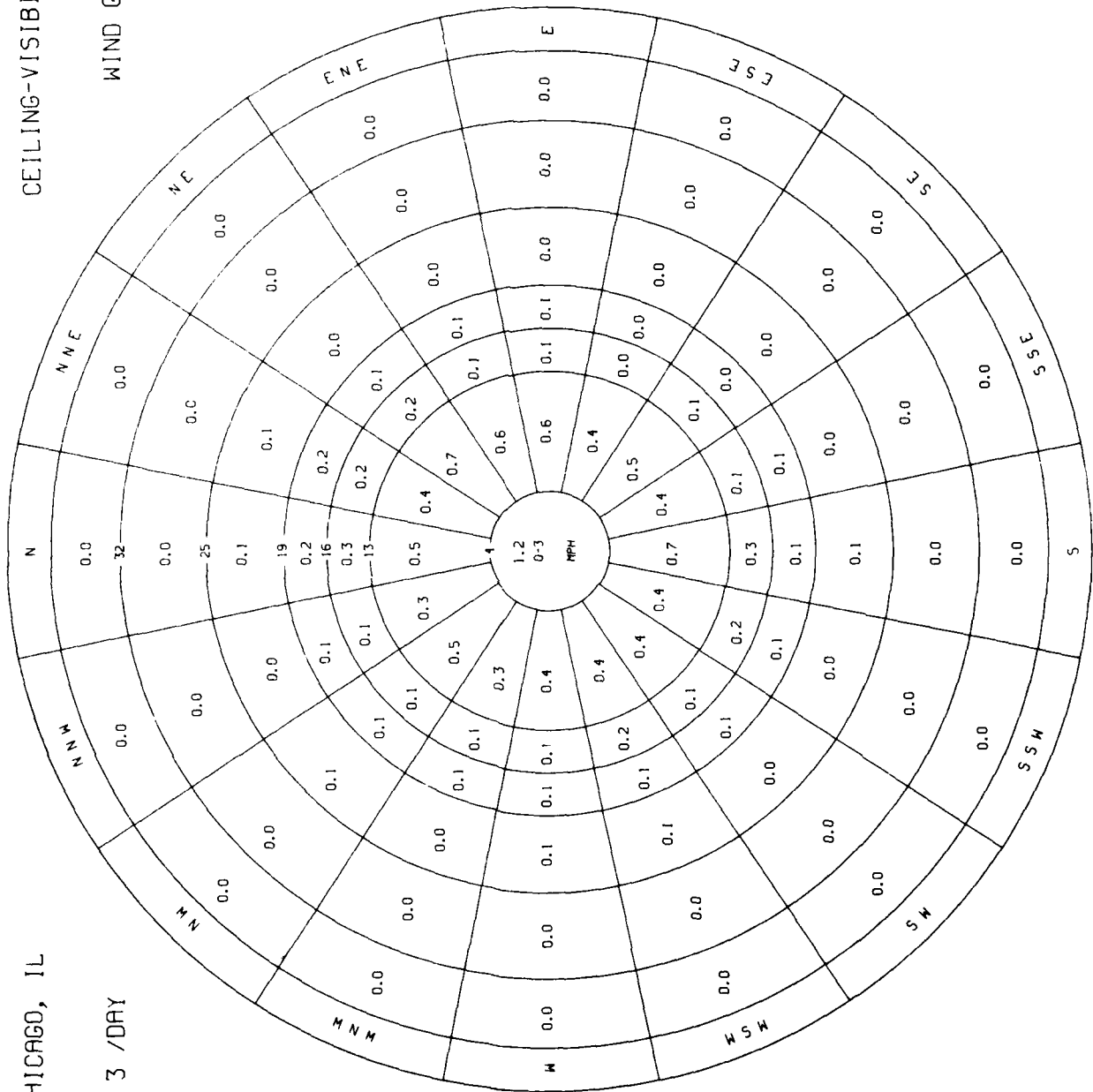
STATION NUMBER: 14819

NO. OBS.: 6475

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	1	B	
N	.0	.2	.6	3.9	.2	1.5	.2	1.3	.1	.6	.0	.2	.0	.0	1.2 7.7
NNE	.1	.5	.5	3.2	.2	1.4	.2	1.1	.1	.5	.0	.1	.0	.0	1.0 6.8
NNE	.1	.8	.6	3.8	.2	1.2	.1	.9	.1	.5	.0	.2	.0	.0	1.1 7.4
ENE	.1	.6	.6	3.9	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.9 6.2
E	.1	.8	.6	3.9	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.9 6.2
ESE	.1	.6	.4	2.4	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5 3.5
SE	.1	.9	.5	3.3	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.8 5.1
SSE	.1	.4	.4	2.6	.1	.4	.1	.4	.0	.1	.0	.0	.0	.0	.6 3.9
S	.1	.6	.9	5.6	.3	1.7	.1	.8	.1	.4	.0	.0	.0	.0	1.4 9.1
SSW	.1	.5	.6	3.8	.2	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.9 6.2
SW	.1	.4	.5	3.3	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8 5.3
WSW	.0	.3	.5	3.2	.2	1.0	.1	.8	.1	.4	.0	.1	.0	.0	.9 5.8
W	.1	.7	.6	3.7	.1	.8	.1	.8	.1	.6	.0	.2	.0	.0	1.1 6.9
WNW	.1	.5	.4	2.6	.1	.8	.1	.4	.0	.2	.0	.0	.0	.0	.7 4.6
NW	.1	.7	.6	3.7	.2	1.0	.1	.8	.1	.5	.0	.1	.0	.0	1.0 6.8
NNW	.0	.3	.4	2.7	.2	1.1	.1	.7	.1	.4	.0	.1	.0	.0	.8 5.2
CALM	.5	3.3													.5 3.3
TOTAL	1.9	12.1	8.5	55.4	2.3	15.1	1.6	10.7	.8	5.3	.2	1.2	.0	.2	15.3 10.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 3 / DAY

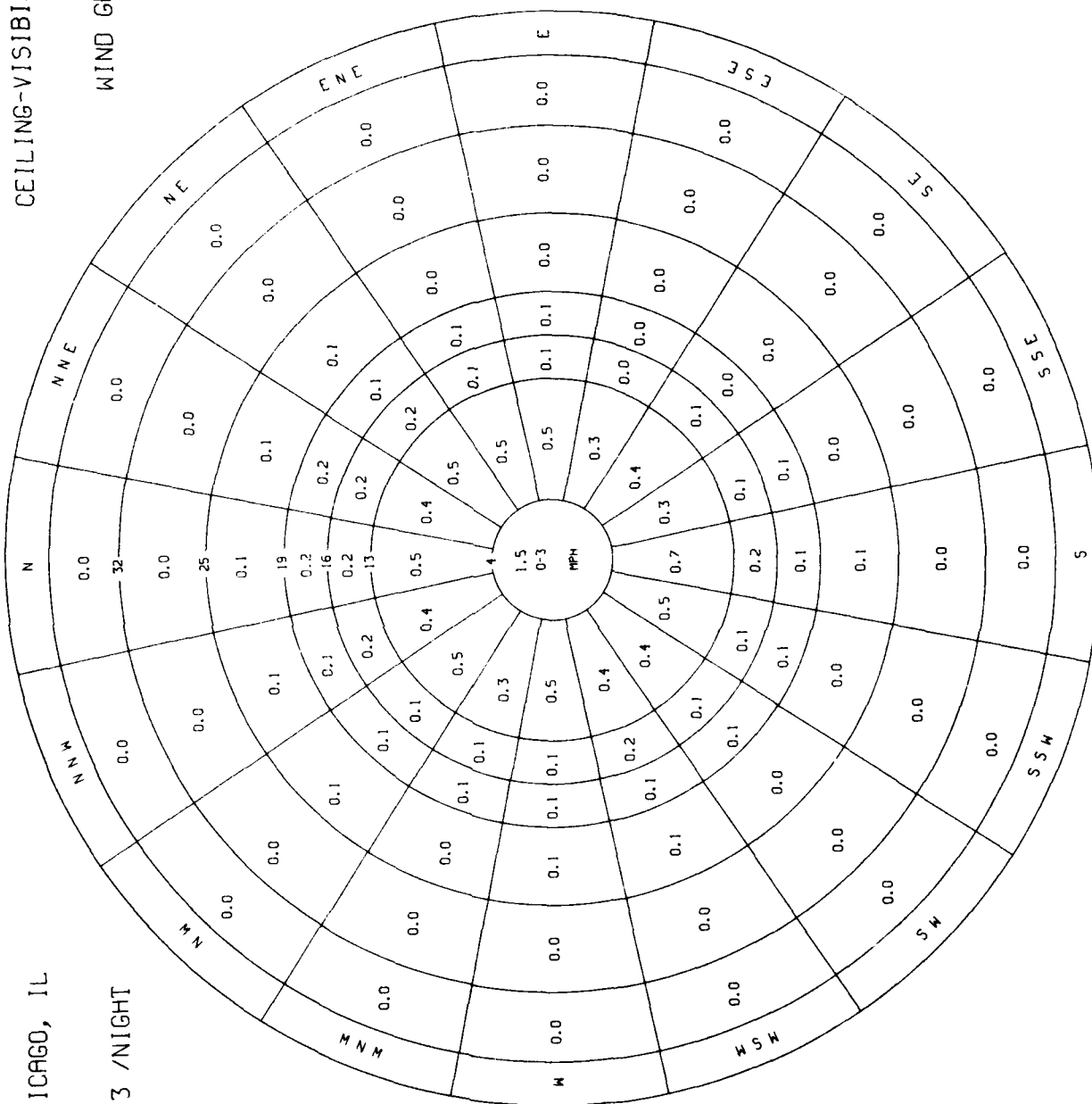
STATION NUMBER: 14819

NO. OBS.: 6374

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.5	3.8	.3	2.0	.2	1.2	.1	.9	.0	.2	.0	.0	1.1	8.5	12.8
NNE	.0	.3	.4	3.1	.2	1.3	.2	1.2	.1	.6	.0	.1	.0	.0	.9	6.6	12.4
NNE	.1	.5	.7	5.0	.2	1.5	.1	.8	.0	.3	.0	.1	.0	.0	1.1	8.4	10.7
ENE	.0	.3	.6	4.2	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.4	10.2
E	.1	.7	.6	4.8	.1	.6	.1	.5	.0	.2	.0	.0	.0	.0	.9	6.8	9.1
ESE	.1	.4	.4	2.7	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.5	3.8	8.7
SE	.1	.6	.5	3.4	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.7	5.1	9.0
SSE	.0	.2	.4	2.7	.1	.6	.1	.5	.0	.2	.0	.0	.0	.0	.6	4.2	10.4
S	.1	.5	.7	5.3	.3	2.0	.1	1.0	.1	.5	.0	.1	.0	.0	1.3	9.5	11.1
SSW	.1	.4	.4	3.3	.2	1.2	.1	.5	.0	.3	.0	.0	.0	.0	.8	5.7	10.6
SW	.0	.2	.4	3.3	.1	1.1	.1	.8	.0	.3	.0	.1	.0	.0	.8	5.8	11.4
WSW	.0	.3	.4	2.7	.2	1.3	.1	.8	.1	.4	.0	.1	.0	.0	.7	5.6	12.1
W	.1	.6	.4	2.9	.1	1.0	.1	.6	.1	.6	.0	.2	.0	.0	.8	6.0	11.6
WNW	.0	.3	.3	2.1	.1	.8	.1	.6	.0	.4	.0	.0	.0	.0	.6	4.2	11.5
NW	.1	.5	.5	3.5	.1	1.0	.1	.7	.1	.5	.0	.1	.0	.0	.8	6.3	10.9
NNW	.0	.2	.3	2.3	.1	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.6	4.7	12.1
CALM	.3	2.5													.3	2.5	
TOTAL	1.2	9.0	7.3	55.3	2.3	17.5	1.5	11.2	.8	5.7	.1	1.1	.0	.2	13.2	100	10.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 3 / NIGHT

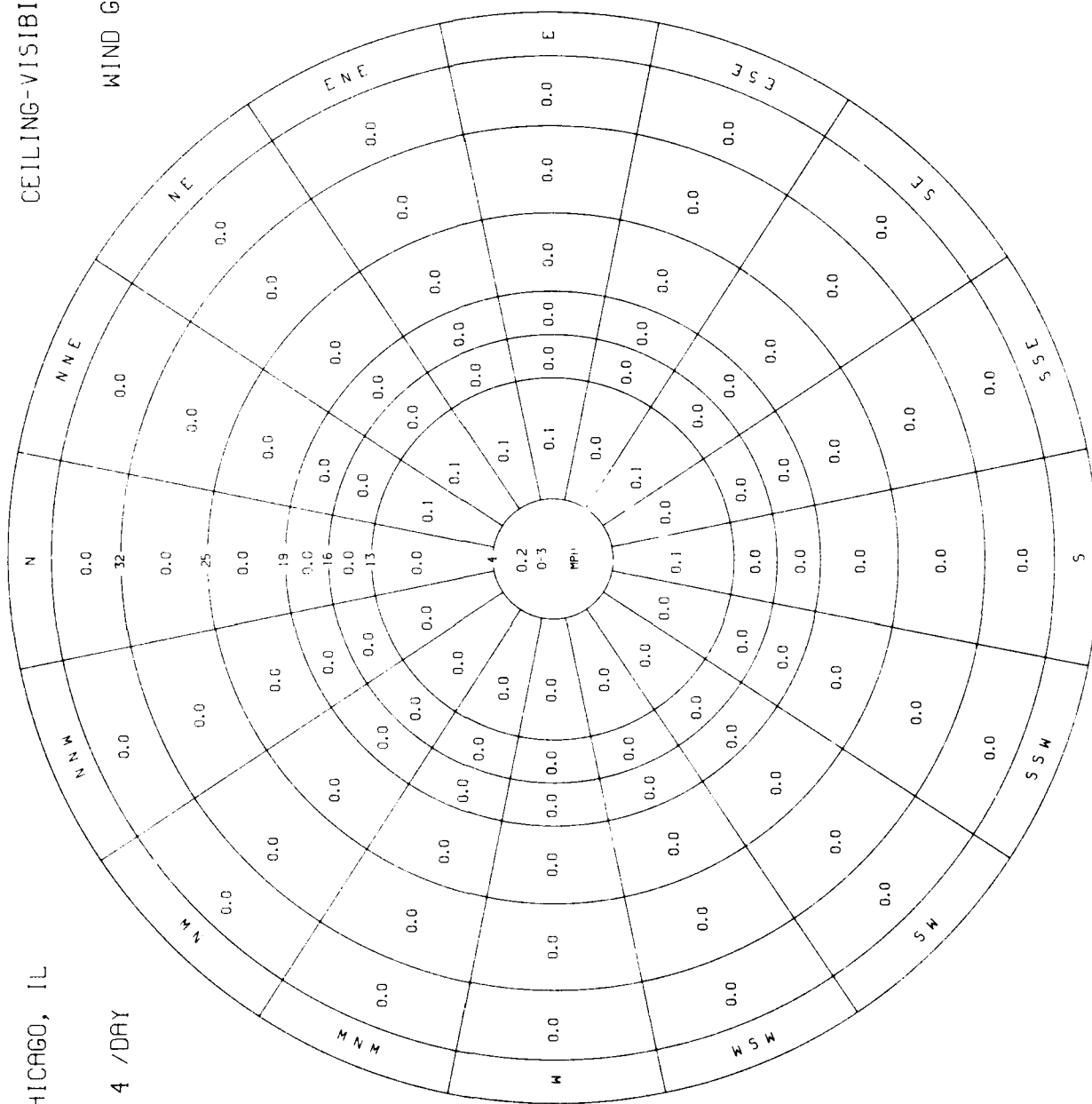
STATION NUMBER: 14819

NO. OBS.: 5739

D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.3	.5	4.0	.2	1.5	.2	1.4	.1	.7	.0	.1	.0	.0	1.1	7.9	12.6		
NNE	.1	.5	.4	3.2	.2	1.5	.2	1.2	.1	.5	.0	.1	.0	.0	.9	6.9	11.9		
NE	.1	.7	.5	3.8	.2	1.3	.1	1.0	.1	.5	.0	.2	.0	.0	1.0	7.7	11.4		
ENE	.1	.6	.5	3.9	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.2	10.0		
E	.1	.9	.5	3.7	.1	.7	.1	.5	.0	.2	.0	.1	.0	.0	.8	6.1	9.1		
ESE	.1	.6	.3	2.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.4	8.2		
SE	.1	.8	.4	3.2	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.7	4.9	8.5		
SSE	.0	.3	.3	2.3	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.5	3.6	10.3		
S	.1	.5	.7	5.0	.2	1.8	.1	.9	.1	.5	.0	.1	.0	.0	1.2	8.7	10.8		
SSW	.1	.5	.5	3.6	.1	1.1	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.0	10.4		
SW	.0	.3	.4	3.3	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.3	10.9		
WSW	.0	.2	.4	3.0	.2	1.1	.1	.9	.1	.5	.0	.1	.0	.0	.8	5.8	12.1		
W	.1	.7	.5	4.0	.1	1.0	.1	.9	.1	.7	.0	.2	.0	.0	1.0	7.4	11.4		
WNW	.1	.4	.3	2.5	.1	.9	.1	.5	.0	.2	.0	.0	.0	.0	.6	4.5	11.0		
NW	.1	.7	.5	3.9	.1	1.1	.1	.8	.1	.5	.0	.1	.0	.0	1.0	7.2	11.0		
NNW	.0	.3	.4	2.8	.2	1.1	.1	.8	.1	.4	.0	.1	.0	.0	.7	5.5	12.2		
CALM	.4	2.0													.4	3.0			
TOTAL	1.5	11.2	7.4	54.3	2.2	16.0	1.5	11.4	.8	5.7	.2	1.2	.0	.1	13.5	100	10.6		

CEILING-VISIBILITY

WIND GRAPH



MDW CHICAGO, IL

CLASS 4 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MDW CHICAGO, IL

CLASS 4 / DAY

NO. OBS.: 571

STATION NUMBER: 14819

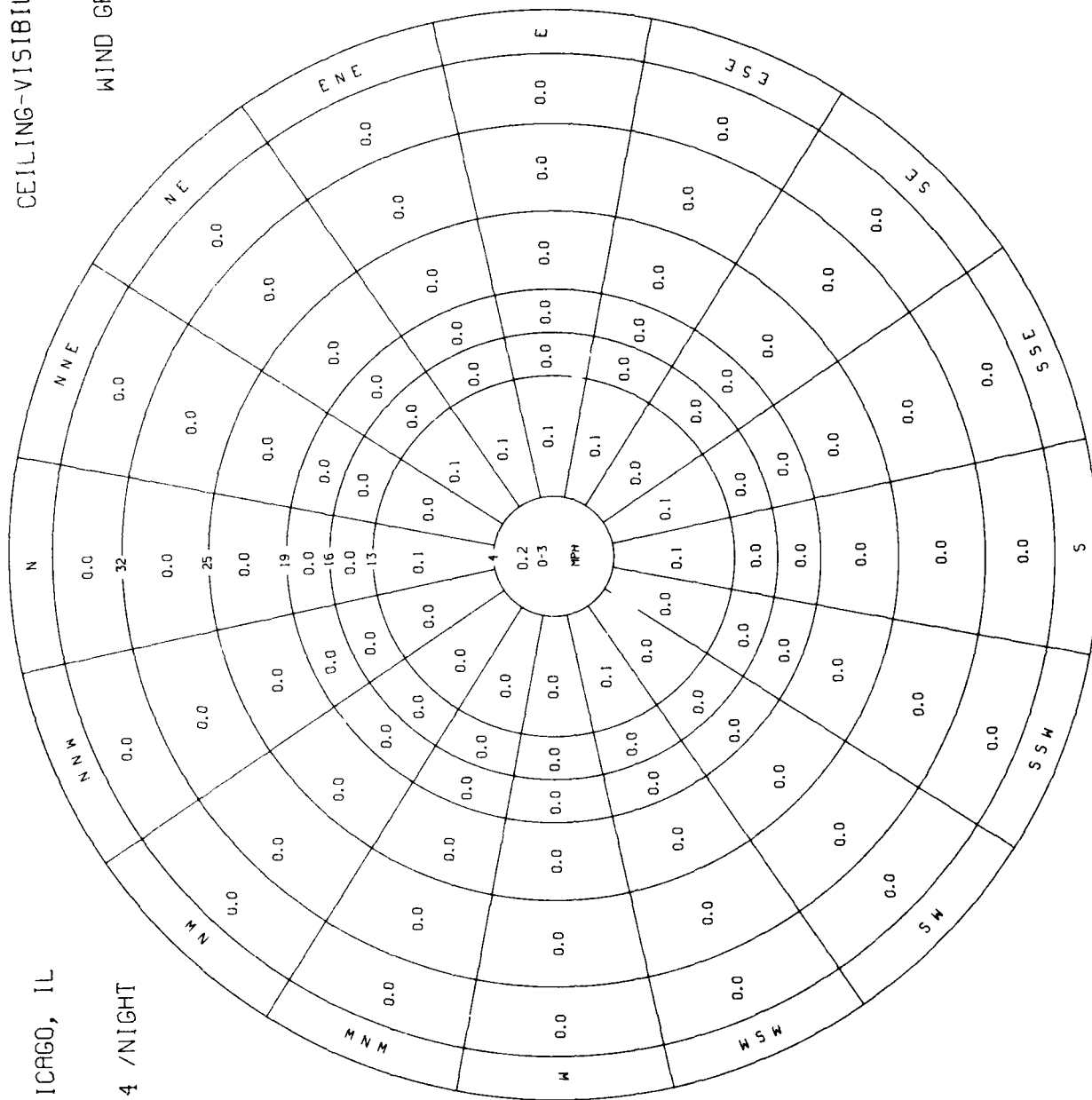
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.4	.0	3.7	.0	.9	.0	.5	.0	.9	.0	.0	.0	.0	.1	6.3	11.2
NNE	.0	.5	.1	4.9	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.7	8.6
NNE	.0	1.8	.1	7.4	.0	.9	.0	.5	.0	.5	.0	.2	.0	.0	.1	11.2	8.9
ENE	.0	1.2	.1	5.4	.0	1.4	.0	.9	.0	.2	.0	.0	.0	.0	.1	9.1	9.3
E	.0	1.6	.1	8.8	.0	.4	.0	.5	.0	.7	.0	.0	.0	.0	.1	11.9	8.5
ESE	.0	.7	.0	2.1	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.3	8.5
SE	.0	.9	.1	4.9	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.3	7.6
SSE	.0	.7	.0	3.0	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.1	4.4	8.8
S	.0	.4	.1	6.7	.0	1.2	.0	.5	.0	.2	.0	.0	.0	.0	.1	8.9	9.6
SSW	.0	.9	.0	2.8	.0	1.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	5.4	9.3
SW	.0	.4	.0	3.3	.0	.7	.0	.2	.0	.2	.0	.0	.0	.0	.1	4.7	9.4
WSW	.0	.4	.0	2.5	.0	.2	.0	.2	.0	.4	.0	.4	.0	.0	.0	3.9	11.6
W	.0	.7	.0	2.1	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	3.3	7.5
WNW	.0	.4	.0	2.6	.0	.0	.0	.2	.0	.2	.0	.2	.0	.2	.0	3.7	9.6
NW	.0	.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1.9	8.3
NNW	.0	.5	.0	3.2	.0	1.1	.0	.5	.0	.2	.0	.5	.0	.0	.1	6.3	11.8
CALM	.0	2.6													.0	2.6	
TOTAL	.2	14.2	.8	64.6	.1	10.9	.1	5.3	.0	3.7	.0	1.2	.0	.2	1.2	100	9.0

CEILING-VISIBILITY

WIND GRAPH

MDW CHICAGO, IL

CLASS 4 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MDW CHICAGO, IL

CLASS 4 / NIGHT

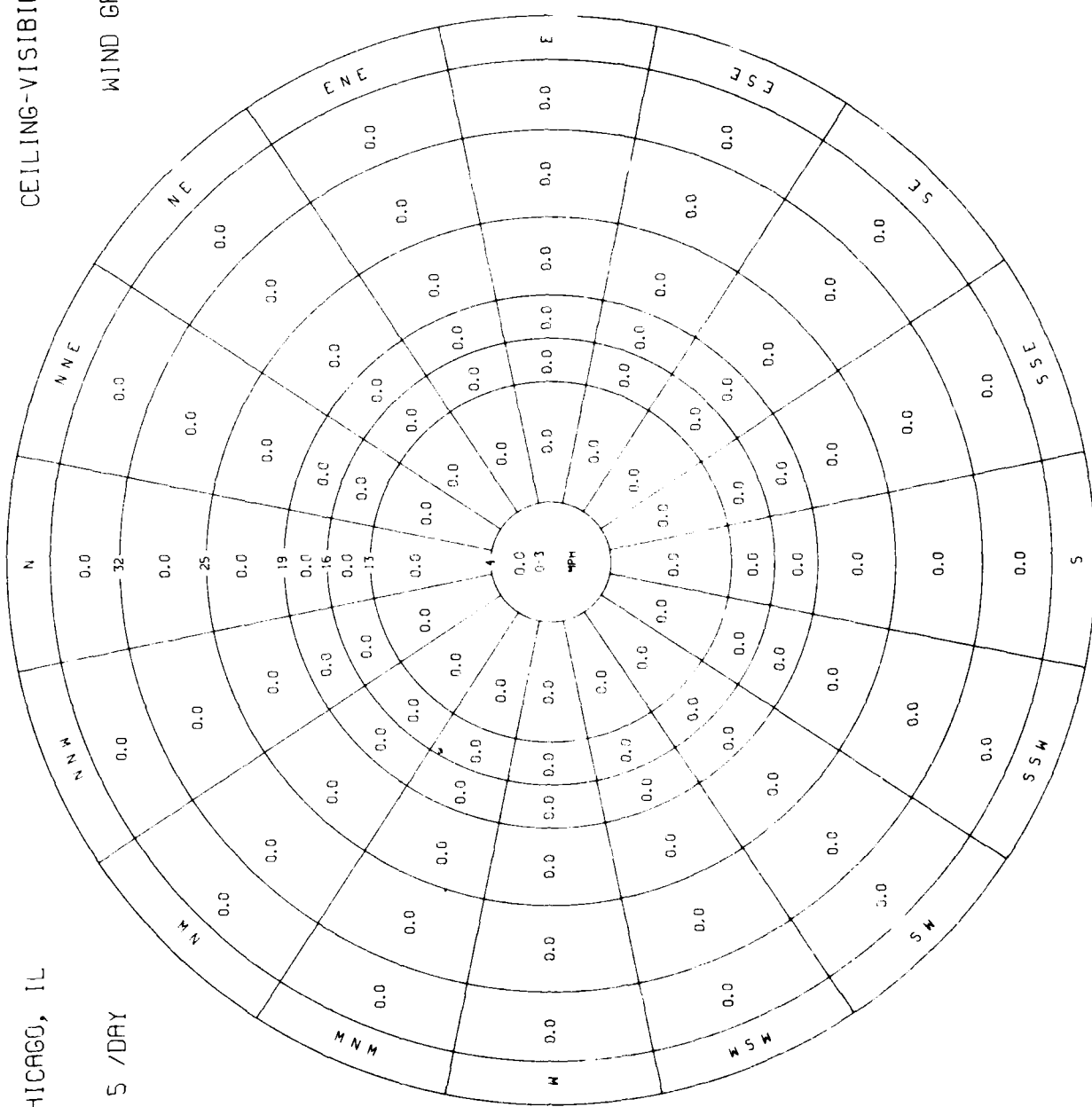
NO. OBS.: 528

STATION NUMBER: 14819

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.1	4.7	.0	1.5	.0	.8	.0	.4	.0	.4	.0	.0	.1 7.8
NNE	.0	.6	.0	3.6	.0	1.1	.0	.6	.0	.8	.0	.0	.0	.0	.1 6.6
NNE	.0	.8	.1	4.2	.0	.4	.0	.4	.0	.4	.0	.2	.0	.2	.1 6.4
ENE	.0	.8	.1	4.4	.0	.8	.0	.6	.0	.4	.0	.0	.0	.0	.1 6.8
E	.0	.0	.1	5.3	.0	.8	.0	.6	.0	.0	.0	.0	.0	.0	.1 6.6
ESE	.0	.4	.1	4.4	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.1 5.5
SE	.0	1.7	.0	3.6	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.1 6.1
SSE	.0	.9	.1	5.1	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1 6.4
S	.0	.4	.1	9.5	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.1 11.7
SSW	.0	.8	.0	4.0	.0	.8	.0	.9	.0	.2	.0	.2	.0	.0	.1 6.8
SW	.0	.8	.0	2.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.8
WSW	.0	.4	.1	4.4	.0	.4	.0	.4	.0	.0	.0	.2	.0	.0	.1 5.7
W	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0 2.7
WNW	.0	.4	.0	2.7	.0	.0	.0	.4	.0	.0	.0	.2	.0	.0	.0 3.6
NW	.0	.2	.0	2.5	.0	.6	.0	.4	.0	.2	.0	.0	.0	.0	.0 3.8
NNW	.0	.8	.0	2.1	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.0 3.8
CALM	.1	5.9													.1 5.9
TOTAL	.2	15.2	.8	65.0	.1	9.5	.1	6.3	.0	2.7	.0	1.1	.0	.4	1.2 100
															8.7

CEILING-VISIBILITY

WIND GRAPH



MDW CHICAGO, IL

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 5 / DAY

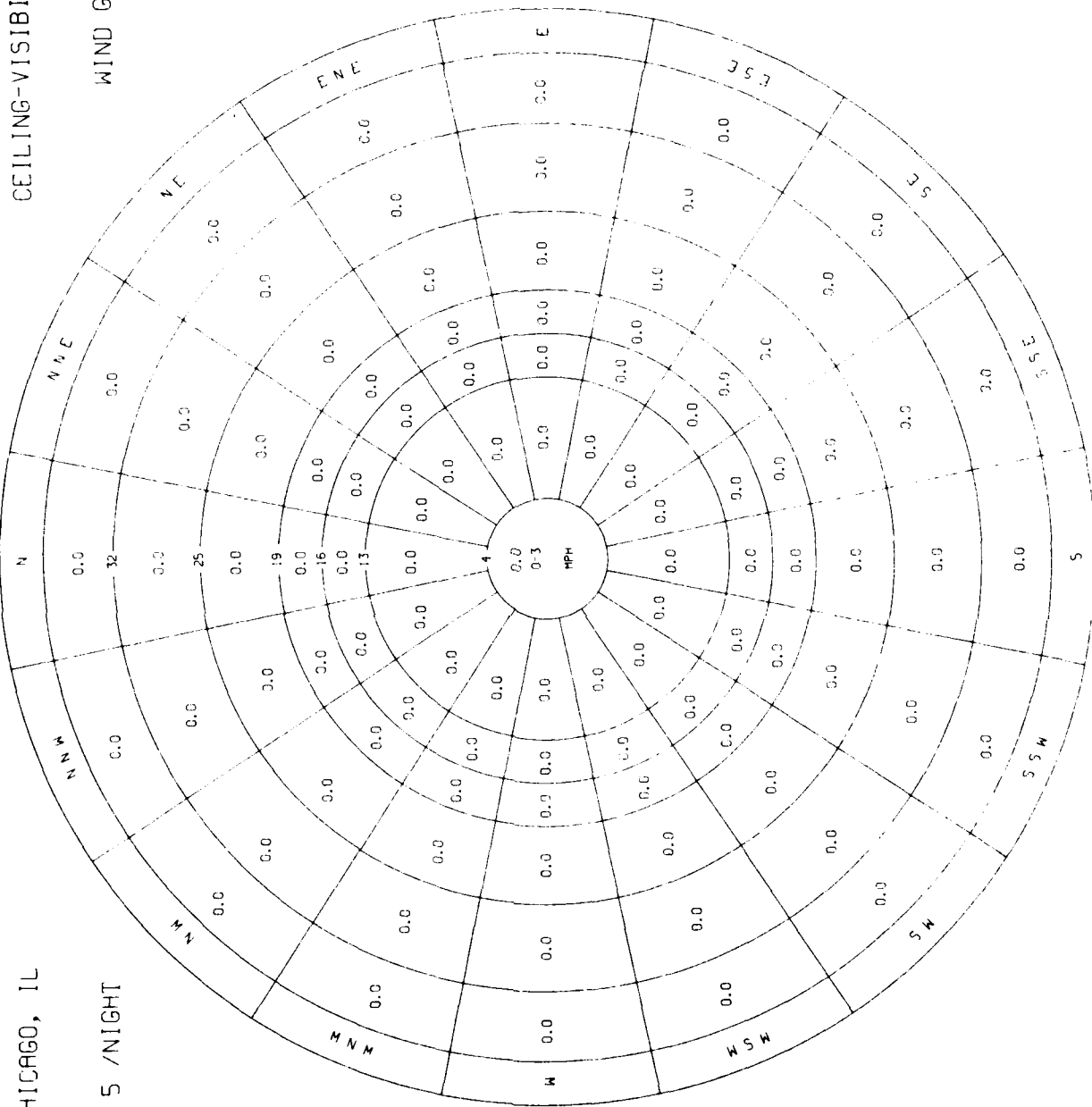
STATION NUMBER: 14819

NO. OBS.: 113

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.8	.0	7.1	.0	1.8	.0	.0	.0	.0	.9	.0	.0	.0	.0	11.5	3.2
NNE	.0	2.7	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	5.1
NE	.0	2.7	.0	5.3	.0	.0	.0	.9	.0	3.5	.0	.9	.0	.0	.0	13.3	12.3
ENE	.0	.9	.0	6.2	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	8.0	9.1
E	.0	1.8	.0	4.4	.0	1.8	.0	.0	.0	.9	.0	.0	.0	.0	.0	8.8	9.8
ESE	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	7.3
SE	.0	1.8	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.5
SSE	.0	.9	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.7
S	.0	.0	.0	10.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5	8.5
SSW	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	8.0
SW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0
WSW	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	8.3
W	.0	.9	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.7
WNW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	1.8	13.0
NW	.0	.9	.0	2.7	.0	.0	.0	.9	.0	.9	.0	.9	.0	.0	.0	6.2	13.6
NNW	.0	.9	.0	.7	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	4.4	10.2
CALM	.0	4.4													.0	4.4	
TOTAL	.0	20.4	.1	62.8	.0	4.4	.0	2.7	.0	7.1	.0	2.7	.0	.0	.2	100	8.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14819

NO. OBS.: 89

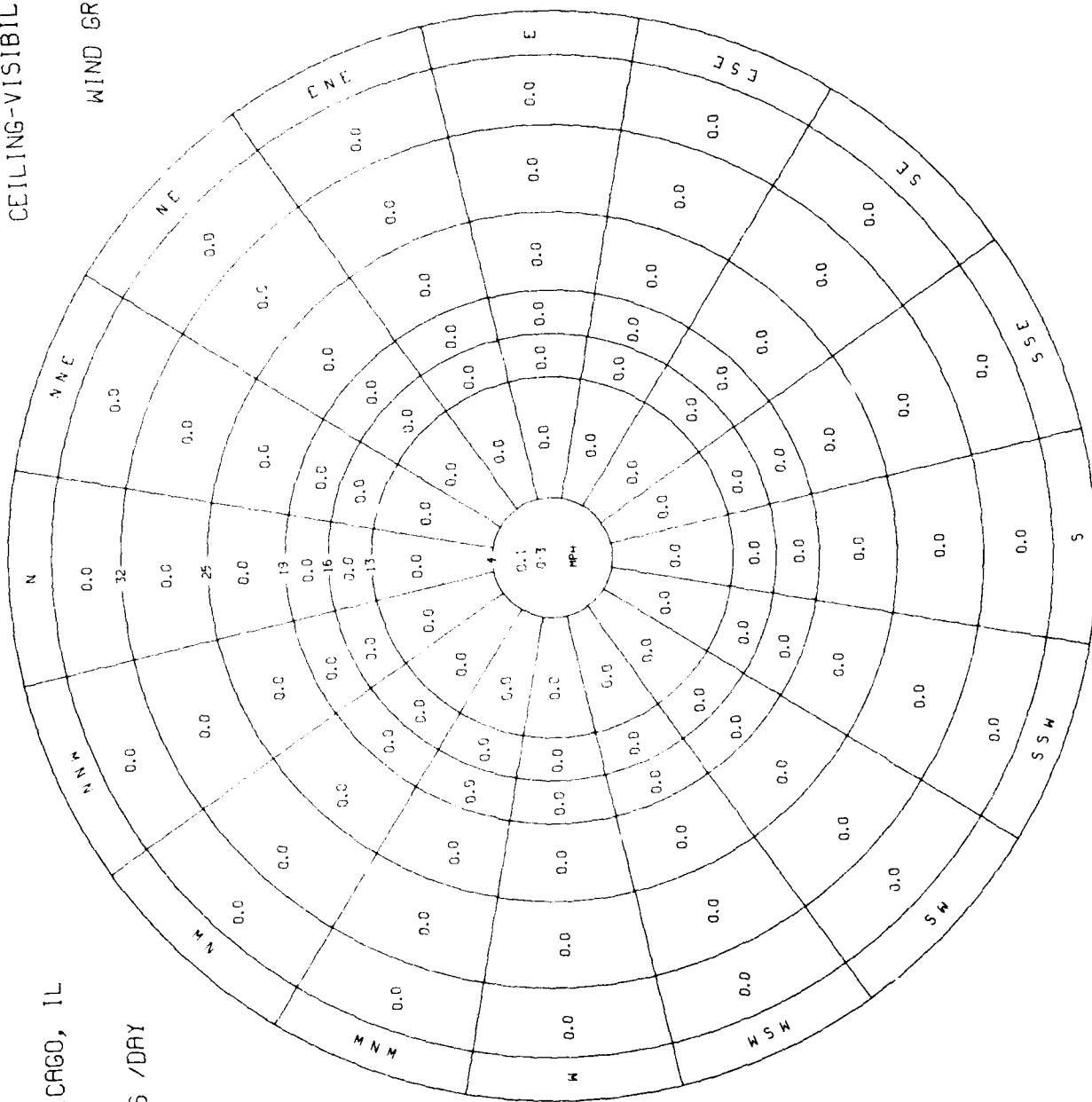
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	11.0
NNE	.0	1.1	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	6.7	15.0
NE	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.3
ENE	.0	.0	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	10.5
E	.0	2.2	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	6.7
ESE	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.5
SE	.0	2.2	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	5.4
SSE	.0	2.2	.0	4.5	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	7.9	7.1
S	.0	1.1	.0	11.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.5	7.8
SSW	.0	1.1	.0	7.9	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	11.2	8.7
SW	.0	1.1	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.3
WSW	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.0
W	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.5
WNW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	15.0
NW	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1	1.0
NNW	.0	.0	.0	2.2	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	3.4	11.3
CALM	.0	4.5														.0	4.5	
TOTAL	.0	19.1	.1	66.3	.0	7.9	.0	2.2	.0	1.1	.0	2.2	.0	1.1	.0	2	100	8.0

CEILING-VISIBILITY

WIND GRAPH

MDW CHICAGO, IL

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 6 / DAY

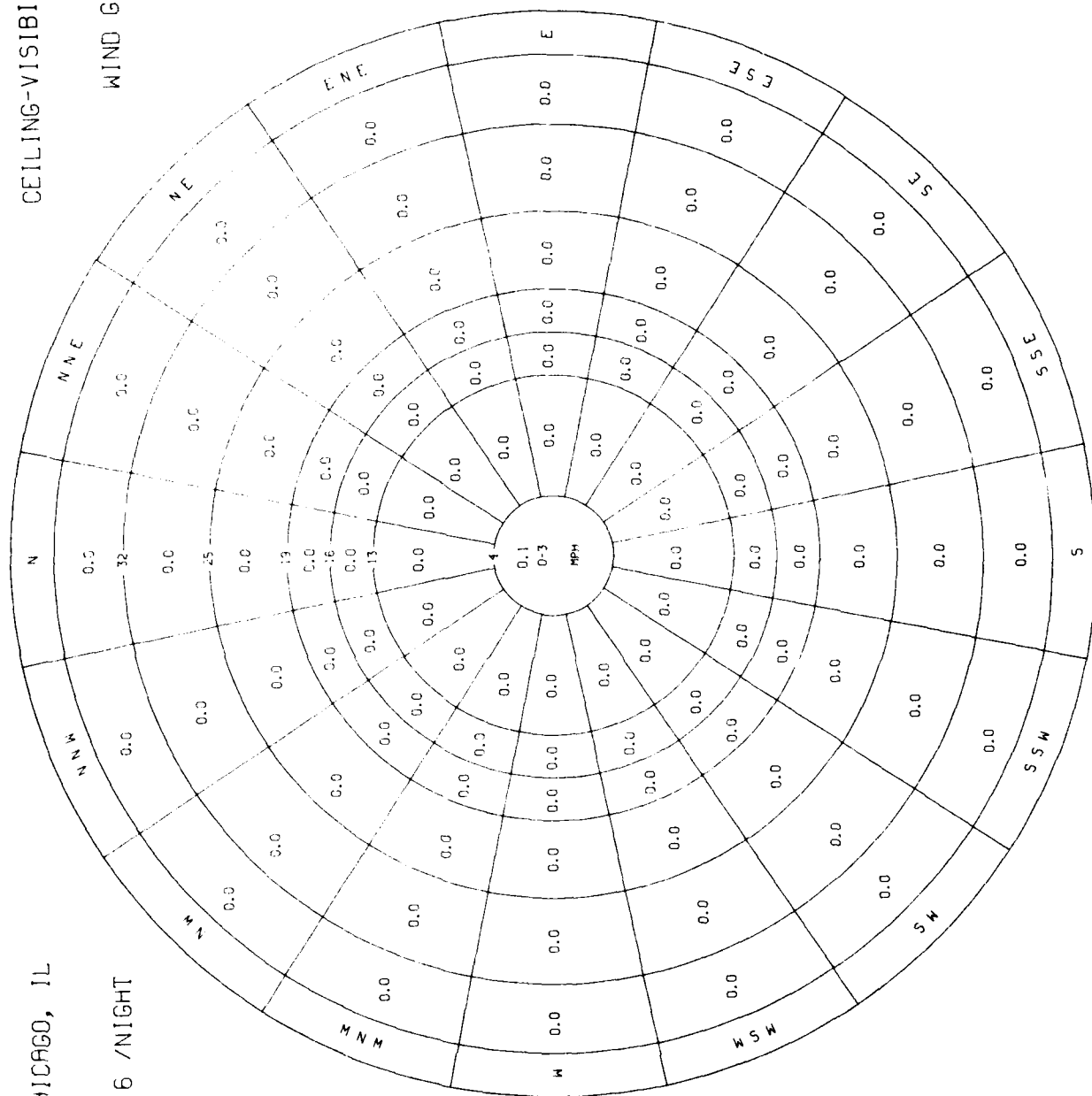
STATION NUMBER: 14819

NO. OBS.: 77

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
NNE	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
NE	.0	1.3	.0	2.6	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	5.2
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
E	.0	2.6	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
ESE	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
SE	.0	2.6	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8
SSE	.0	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9
S	.0	1.3	.0	15.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	18.2
SSW	.0	1.3	.0	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.4
SW	.0	2.6	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5
WSW	.0	1.3	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
W	.0	3.9	.0	3.9	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	9.1
WNW	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
NW	.0	1.3	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5
NNW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
CALM	.0	10.4													10.4
TOTAL	.1	35.1	.1	59.7	.0	1.3	.0	1.3	.0	1.3	.0	1.3	.0	.0	6.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14819

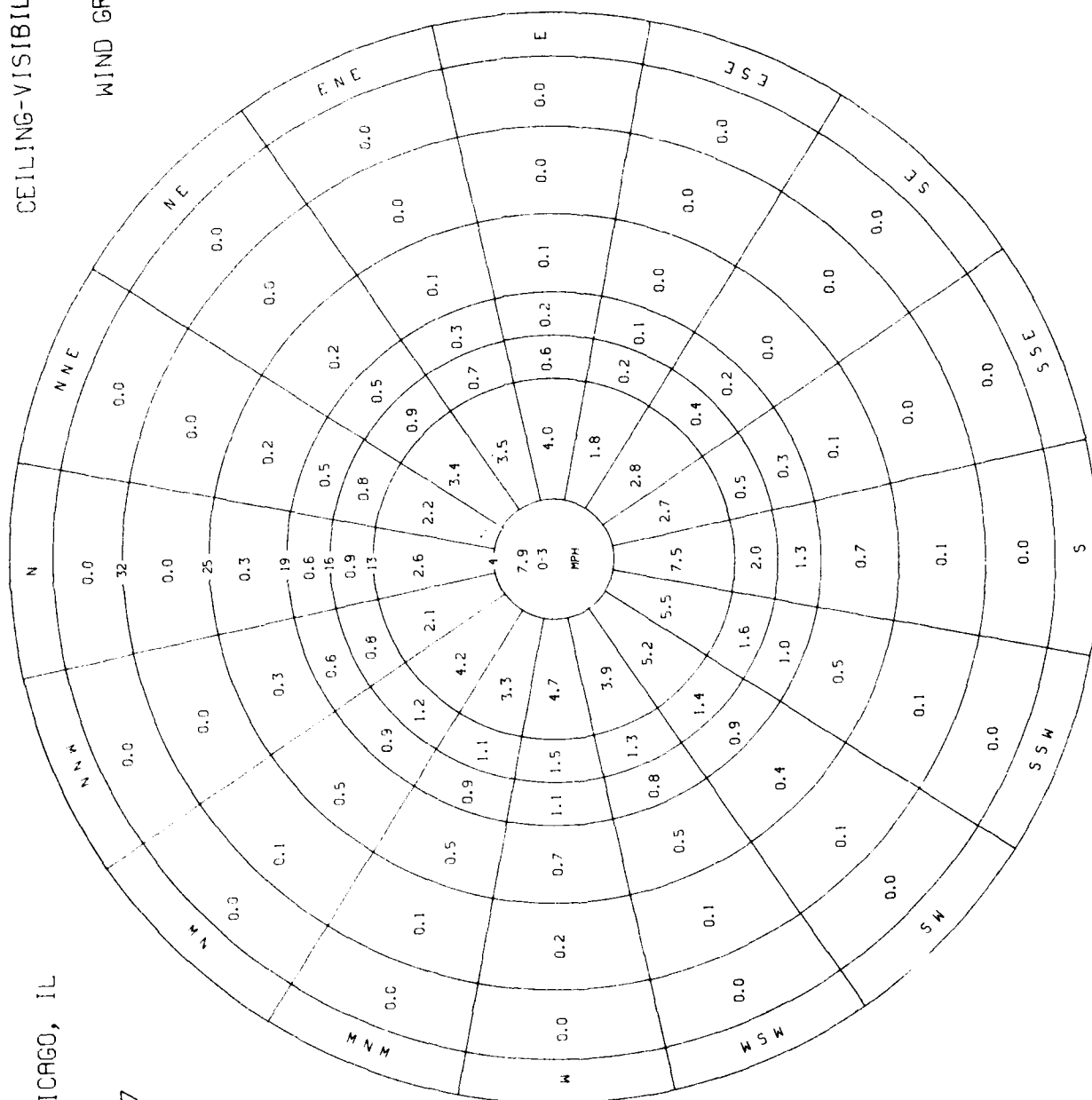
NO. OBS.: 119

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
NNE	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4
NNE	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
ENE	.0	1.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0
E	.0	2.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4
ESE	.0	.8	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4
SE	.0	2.5	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9
SSE	.0	.8	.0	13.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2
S	.0	1.7	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	16.0
SSW	.0	2.5	.0	8.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	11.8
SW	.0	4.2	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9
WSW	.0	.8	.0	3.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	5.0
W	.0	.8	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2
WNW	.0	5.9	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1
NW	.0	2.5	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0
NNW	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
CALM	.0	7.6													7.6
TOTAL	1	37.8	.2	58.8	.0	2.5	.0	.0	.0	.0	.0	.8	.0	.0	5.5

WIND GRAPH

MDW CHICAGO, IL

CLASS 7

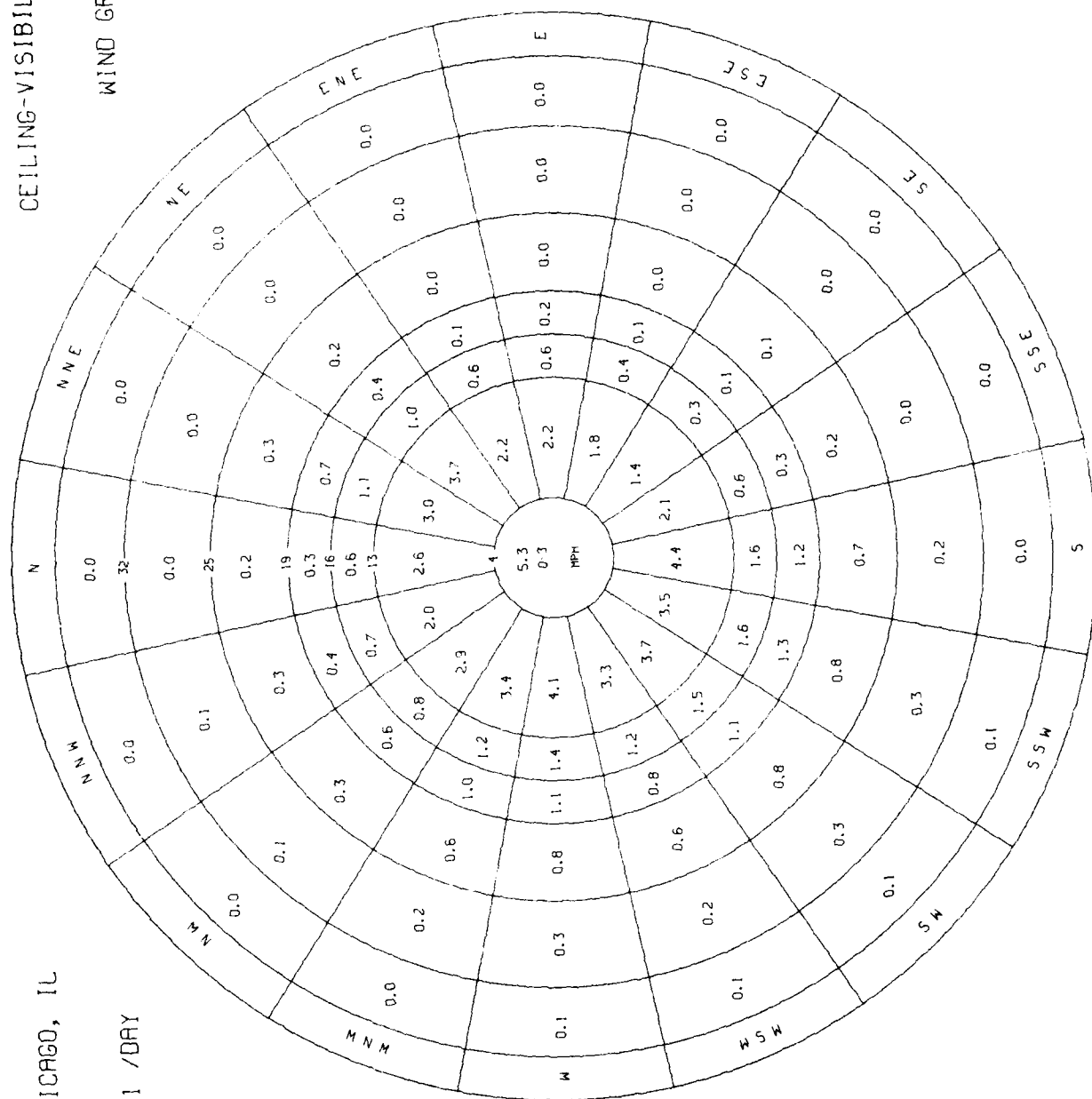


CEILING-VISIBILITY

WIND GRAPH

ORD CHICAGO, IL

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 1 / DAY

STATION NUMBER: 94846

NO. OBS.: 39432

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.3	.3	2.6	3.0	.5	.7	.3	.4	.2	.2	.0	.0	.0	.0	.0	4.0	4.7	10.3
NNE	.2	.2	3.0	3.6	1.1	1.3	.7	.8	.3	.4	.0	.0	.0	.0	.0	5.4	6.3	11.5
NNE	.2	.2	3.7	4.4	1.0	1.1	.4	.5	.2	.2	.0	.0	.0	.0	.0	5.5	6.5	10.4
ENE	.1	.1	2.2	2.6	.6	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	3.1	3.6	10.2
E	.1	.2	2.2	2.7	.6	.7	.2	.2	.0	.1	.0	.0	.0	.0	.0	3.2	3.8	10.0
ESE	.1	.1	1.8	2.1	.4	.4	.1	.1	.0	.1	.0	.0	.0	.0	.0	2.4	2.8	9.8
SE	.1	.1	1.4	1.7	.3	.3	.1	.2	.1	.1	.0	.0	.0	.0	.0	2.0	2.4	9.7
SSE	.1	.2	2.1	2.5	.6	.7	.3	.4	.2	.2	.0	.0	.0	.0	.0	3.4	4.0	10.8
S	.3	.3	4.4	5.2	1.6	1.9	1.2	1.4	.7	.8	.2	.2	.0	.0	.0	8.3	9.9	12.2
SSW	.2	.2	3.5	4.2	1.6	1.9	1.3	1.5	.8	1.0	.3	.4	.1	.1	.1	7.8	9.2	13.3
SW	.2	.2	3.7	4.4	1.5	1.7	1.1	1.3	.8	.9	.3	.4	.1	.1	.1	7.6	9.0	13.0
WSW	.2	.2	3.3	3.9	1.2	1.4	.8	1.0	.6	.7	.2	.3	.1	.1	.1	6.4	7.6	12.7
W	.4	.5	4.1	4.9	1.4	1.6	1.1	1.3	.8	1.0	.3	.4	.1	.2	.2	8.2	9.7	12.7
WNW	.3	.3	3.4	4.0	1.2	1.4	1.0	1.1	.6	.7	.2	.2	.0	.0	.0	6.6	7.8	12.2
NW	.3	.3	2.9	3.4	.8	1.0	.6	.7	.3	.3	.1	.1	.0	.0	.0	4.9	5.8	11.1
NNW	.2	.2	2.0	2.4	.7	.8	.4	.5	.3	.4	.1	.1	.0	.0	.0	3.7	4.3	11.6
CALM	2.2	2.6														2.2	2.6	
TOTAL	5.3	6.3	46.4	54.8	14.9	17.7	9.8	11.6	5.9	7.0	1.8	2.1	.4	.5	.5	84.6	100	11.5

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 94846

NO. OBS.: 34632

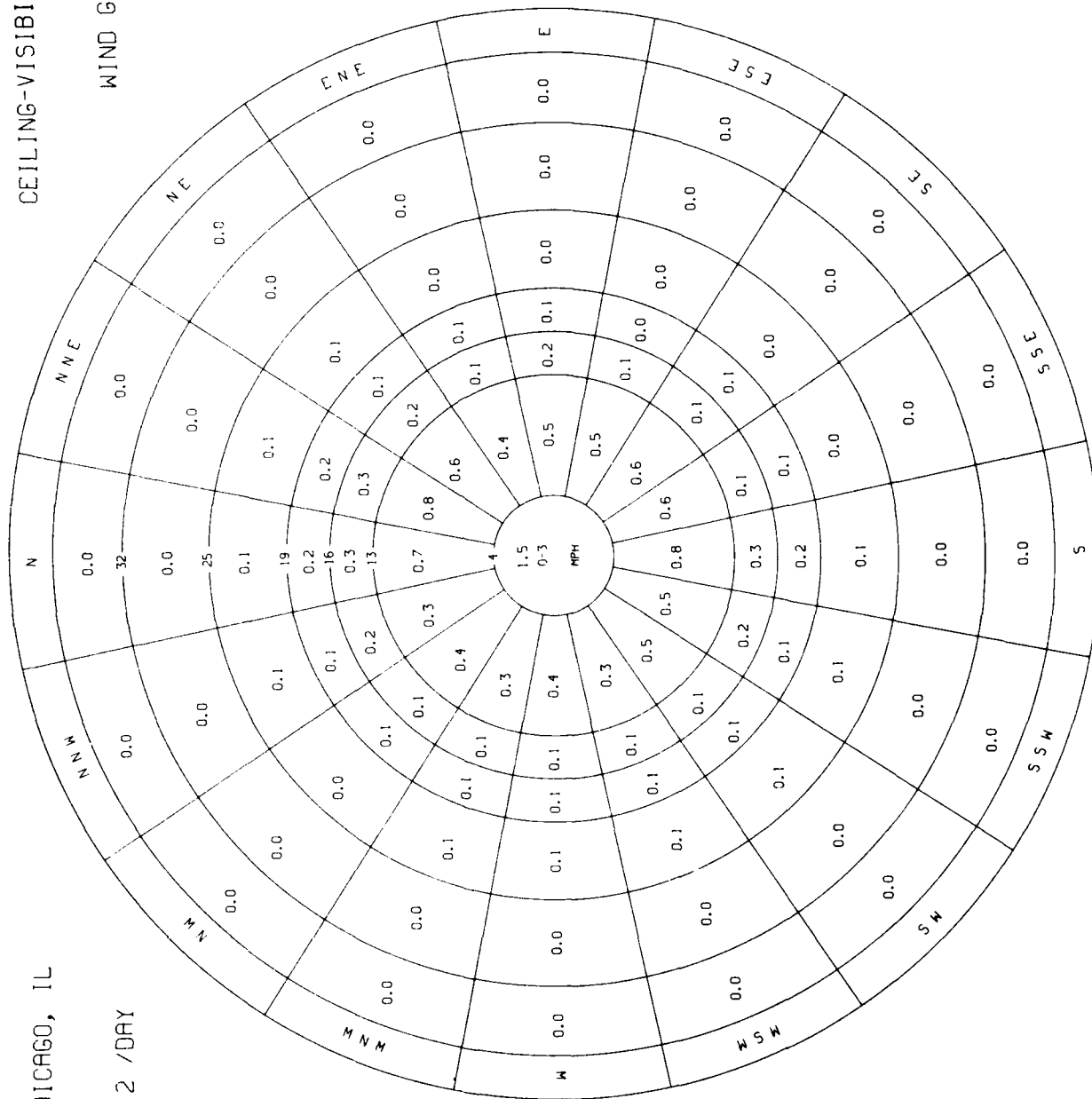
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.5	.6	3.3	3.9	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.5	5.3	8.4
NNE	.3	.4	2.6	3.1	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	3.6	4.3	8.9
NE	.3	.4	2.1	2.5	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.0	3.5	8.6
ENE	.1	.1	1.2	1.4	.2	.3	.1	.1	.0	.1	.0	.0	.0	.0	1.7	2.0	9.5
E	.2	.2	1.4	1.7	.2	.3	.1	.1	.0	.1	.0	.0	.0	.0	2.0	2.4	9.0
ESE	.1	.2	1.7	2.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.2	2.6	8.6
SE	.2	.3	2.2	2.6	.3	.3	.1	.2	.0	.0	.0	.0	.0	.0	2.9	3.4	8.4
SSE	.3	.3	3.3	3.9	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.5	5.3	9.1
S	.5	.6	6.6	7.8	1.1	1.4	.7	.9	.4	.5	.1	.2	.0	.0	9.5	11.3	10.0
SSW	.4	.4	4.6	5.5	1.2	1.4	.8	.9	.4	.5	.1	.1	.0	.0	7.6	8.9	10.9
SW	.4	.5	4.3	5.1	.9	1.1	.6	.7	.4	.5	.1	.1	.1	.1	6.8	8.0	10.6
WSW	.4	.5	4.3	5.1	.7	.8	.4	.5	.3	.3	.1	.2	.0	.1	6.3	7.5	10.1
W	.7	.8	5.9	7.0	1.0	1.2	.7	.8	.5	.5	.1	.1	.0	.1	8.9	10.6	9.9
WNW	.5	.6	4.4	5.3	.8	.9	.5	.6	.3	.4	.1	.1	.0	.0	6.7	7.9	9.8
NW	.5	.6	3.5	4.1	.7	.8	.4	.5	.2	.3	.0	.1	.0	.0	5.3	6.3	9.5
NNW	.3	.3	2.5	2.9	.6	.8	.4	.5	.2	.2	.0	.0	.0	.0	4.0	4.8	10.4
CALM	5.0	5.9													5.0	5.9	
TOTAL	10.8	12.8	54.0	63.9	9.6	11.3	5.8	6.8	3.3	3.8	.8	1.0	.2	.3	84.5	100	9.1

CEILING-VISIBILITY

WIND GRAPH

ORD CHICAGO, IL

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: OGD CHICAGO, IL

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 94846

NO. OBS.: 7202

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.5	.7	4.6	.3	1.6	.2	1.2	.1	.7	.0	.1	.0	.0	1.3 8.7 11.6
NNE	.0	.3	.8	5.3	.3	1.9	.2	1.3	.1	.9	.0	.1	.0	.0	1.5 9.9 12.0
NE	.0	.3	.6	4.1	.2	1.4	.1	.7	.1	.6	.0	.1	.0	.0	1.1 7.3 11.4
ENE	.0	.2	.4	2.7	.1	.9	.1	.7	.0	.3	.0	.0	.0	.0	.8 4.9 11.3
E	.0	.2	.5	3.0	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.8 5.0 10.7
ESE	.0	.2	.5	3.3	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.7 4.7 10.1
SE	.1	.4	.6	4.0	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.8 5.4 9.5
SSE	.1	.4	.6	3.8	.1	.9	.1	.5	.0	.2	.0	.1	.0	.0	.9 6.0 10.2
S	.1	.6	.8	5.5	.3	1.7	.2	1.1	.1	.5	.0	.1	.0	.0	1.5 9.5 10.9
SSW	.0	.2	.5	3.3	.2	1.0	.1	.6	.1	.5	.0	.1	.0	.0	.9 5.7 11.7
SW	.0	.2	.5	3.3	.1	.9	.1	.6	.1	.6	.0	.1	.0	.1	.9 5.9 11.9
WSW	.0	.3	.3	2.0	.1	.9	.1	.5	.1	.5	.0	.2	.0	.1	.7 4.4 13.1
W	.1	.3	.4	2.4	.1	.8	.1	.6	.1	.5	.0	.2	.0	.1	.8 5.0 12.3
WNW	.0	.3	.3	2.1	.1	.6	.1	.5	.1	.3	.0	.1	.0	.0	.6 4.0 11.7
NW	.1	.4	.4	2.3	.1	.8	.1	.5	.0	.2	.0	.1	.0	.0	.7 4.3 10.8
NNW	.0	.3	.3	2.2	.2	1.0	.1	.7	.1	.5	.0	.1	.0	.0	.7 4.7 12.4
CALM	.7	4.4													.7 4.4
TOTAL	1.5	9.6	8.3	54.1	2.6	16.9	1.6	10.6	1.1	7.0	.3	1.7	.0	.3	15.4 100 10.8

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 2 / NIGHT

STATION NUMBER: 94846

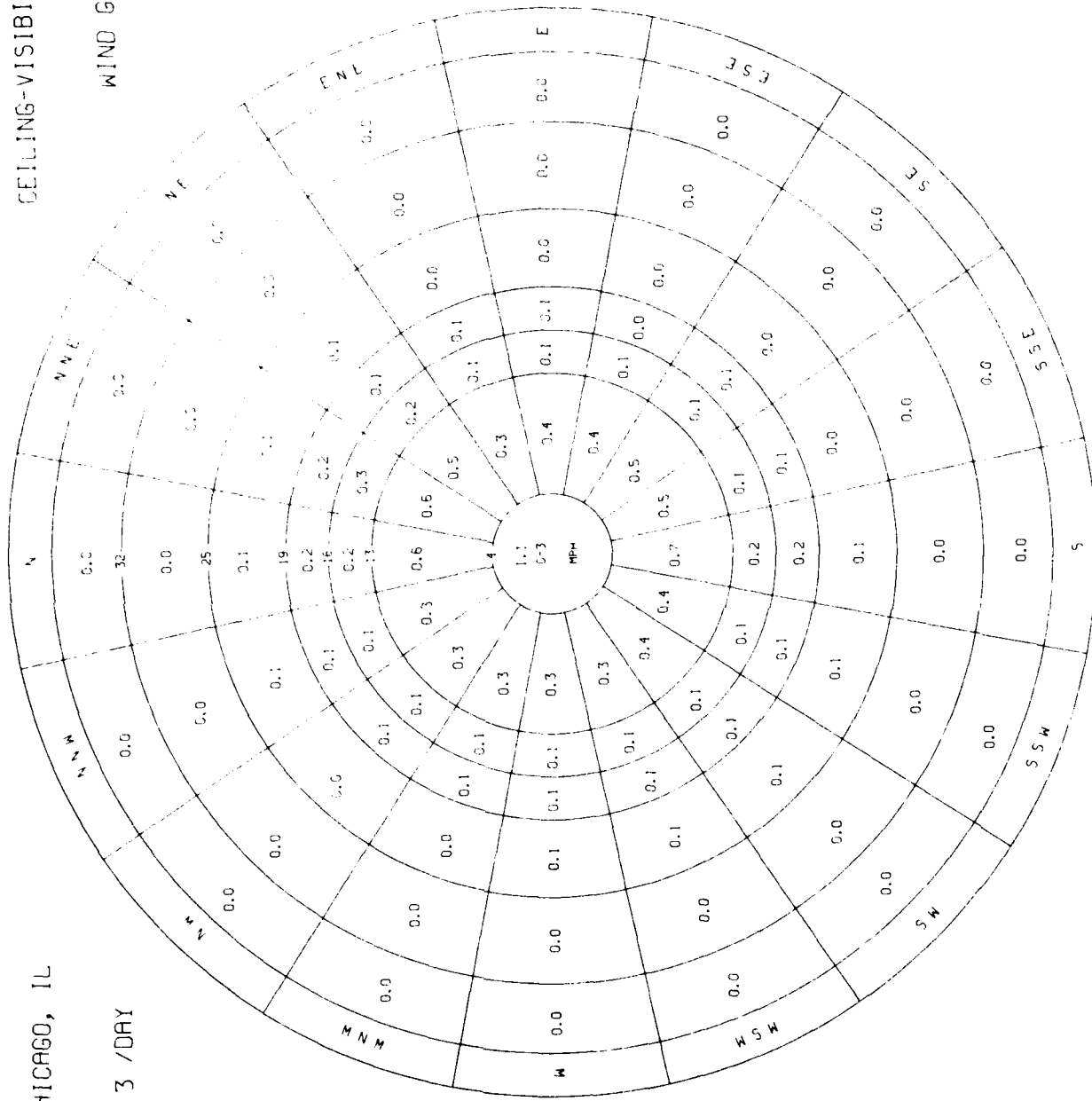
NO. OBS.: 6374

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.4	.9	5.9	.3	1.6	.2	1.0	.1	.6	.0	.2	.0	.0	1.5	9.6	11.1
NNE	.1	.4	.8	4.8	.3	1.8	.2	1.2	.1	.6	.0	.2	.0	.0	1.4	9.1	11.9
NE	.1	.6	.6	4.0	.1	1.0	.1	.9	.1	.6	.0	.1	.0	.0	1.1	7.2	11.1
ENE	.0	.2	.4	2.6	.1	.7	.1	.6	.0	.3	.0	.0	.0	.0	.7	4.4	11.2
E	.0	.3	.4	2.8	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.7	4.4	10.2
ESE	.0	.2	.4	2.8	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.1	10.0
SE	.1	.4	.6	3.7	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.8	5.3	9.4
SSE	.0	.3	.5	3.5	.1	.8	.0	.3	.0	.2	.0	.0	.0	.0	.8	5.0	9.7
S	.1	.4	.8	5.2	.2	1.6	.1	.6	.1	.4	.0	.1	.0	.0	1.3	8.2	10.6
SSW	.0	.2	.5	3.3	.2	1.2	.1	.8	.1	.4	.0	.1	.0	.0	.9	6.0	11.7
SW	.1	.3	.5	3.2	.1	.8	.1	.6	.1	.3	.0	.2	.0	.0	.9	5.6	11.4
WSW	.0	.2	.4	2.7	.1	.6	.1	.5	.1	.5	.0	.2	.0	.0	.7	4.7	12.4
W	.1	.6	.5	3.4	.2	1.0	.1	.6	.1	.5	.1	.4	.0	.1	1.0	6.6	11.8
WNW	.0	.3	.4	2.5	.1	.7	.1	.4	.0	.3	.0	.0	.0	.0	.6	4.2	10.6
NW	.1	.6	.4	2.8	.1	.7	.1	.4	.0	.3	.0	.0	.0	.1	.8	4.8	10.3
NNW	.0	.3	.4	2.7	.2	1.0	.1	.7	.1	.6	.0	.2	.0	.0	.8	5.4	12.2
CALM	.8	5.3													.8	5.3	
TOTAL	1.7	10.9	8.7	55.8	2.4	15.6	1.5	9.5	.9	6.0	.3	1.8	.1	.4	15.5	100	10.5

CEILING-VISIBILITY WIND GRAPH

ORD CHICAGO, IL

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 3 / DAY

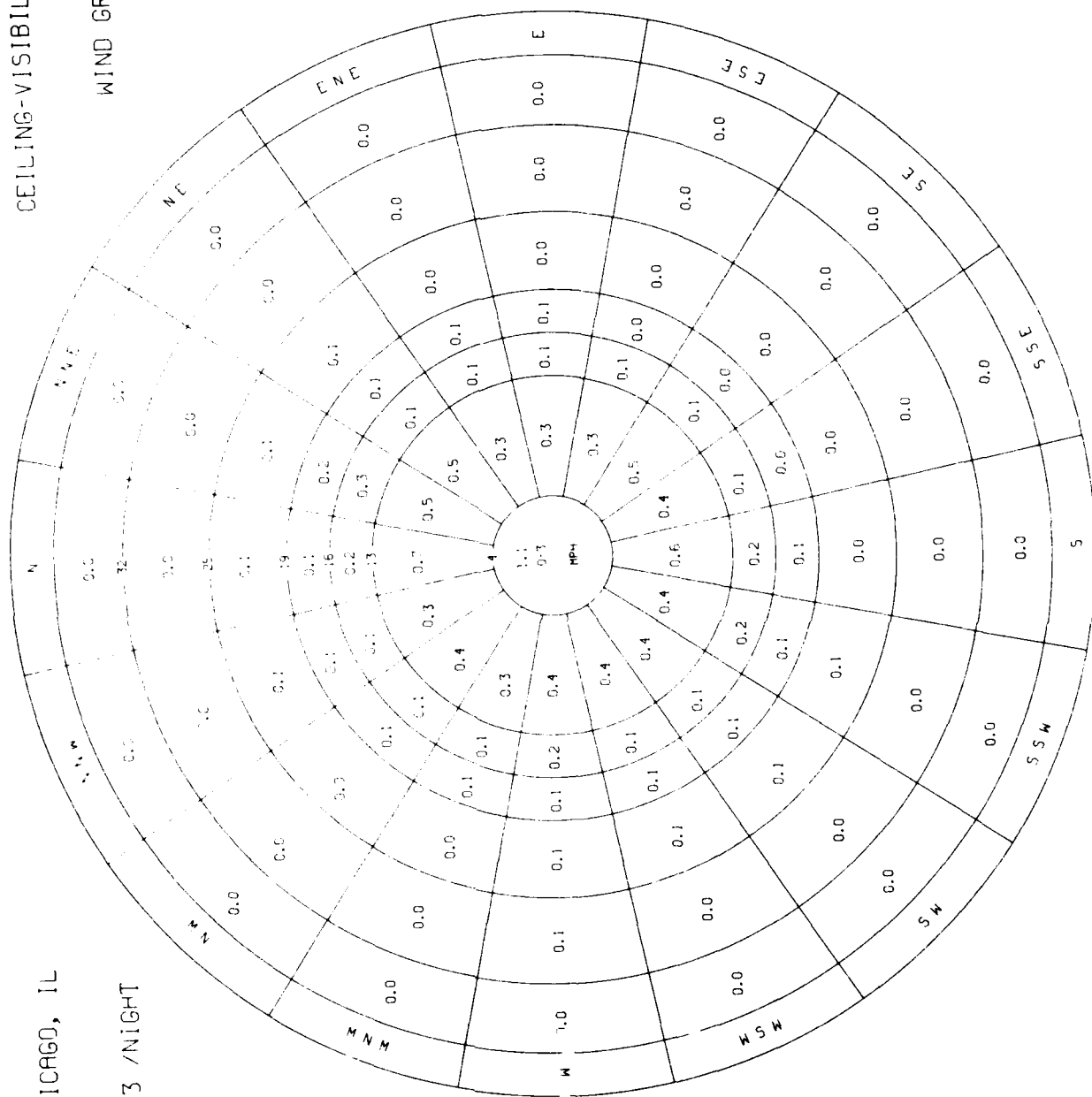
STATION NUMBER: 94246

NO. OBS.: 6140

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.6	4.4	.2	1.7	.2	1.3	.1	.7	.0	.1	.0	.0	1.1	8.6	11.9
NNE	.0	.3	.6	4.9	.3	2.0	.2	1.3	.1	1.0	.0	.1	.0	.0	1.3	9.5	12.2
NE	.0	.3	.5	3.8	.2	1.6	.1	.7	.1	.6	.0	.0	.0	.0	.9	7.0	11.6
ENE	.0	.1	.3	2.3	.1	1.0	.1	.7	.0	.3	.0	.0	.0	.0	.6	4.4	11.7
E	.0	.2	.4	2.8	.1	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.6	4.9	11.0
ESE	.0	.2	.4	3.2	.1	.8	.0	.3	.0	.2	.0	.0	.0	.0	.6	4.7	10.3
SE	.0	.4	.5	4.0	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.7	5.5	9.5
SSE	.0	.4	.5	3.9	.1	.9	.1	.5	.0	.2	.0	.1	.0	.0	.8	6.0	10.4
S	.1	.5	.7	5.5	.2	1.7	.2	1.2	.1	.6	.0	.2	.0	.0	1.3	9.6	11.1
SSW	.0	.2	.4	3.4	.1	1.0	.1	.6	.1	.6	.0	.2	.0	.0	.8	6.0	11.9
SW	.0	.3	.4	3.4	.1	1.0	.1	.7	.1	.6	.0	.2	.0	.1	.8	6.2	12.2
WSW	.0	.3	.3	2.2	.1	1.0	.1	.5	.1	.6	.0	.3	.0	.1	.6	4.8	13.2
W	.0	.3	.3	2.5	.1	.9	.1	.7	.1	.6	.0	.2	.0	.0	.7	5.3	12.3
WNW	.0	.3	.3	2.1	.1	.7	.1	.6	.0	.4	.0	.1	.0	.0	.6	4.2	11.9
NW	.0	.4	.3	2.5	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.6	4.6	11.0
NNW	.0	.2	.3	2.2	.1	1.0	.1	.7	.1	.5	.0	.1	.0	.0	.6	4.8	12.6
CALM	.5	4.1													.5	4.1	
TOTAL	1.1	8.7	7.0	53.1	2.3	17.8	1.5	11.1	1.0	7.3	.2	1.7	.0	.3	13.2	100	11.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: ORD CHICAGO, IL

CLASS 3 / NIGHT

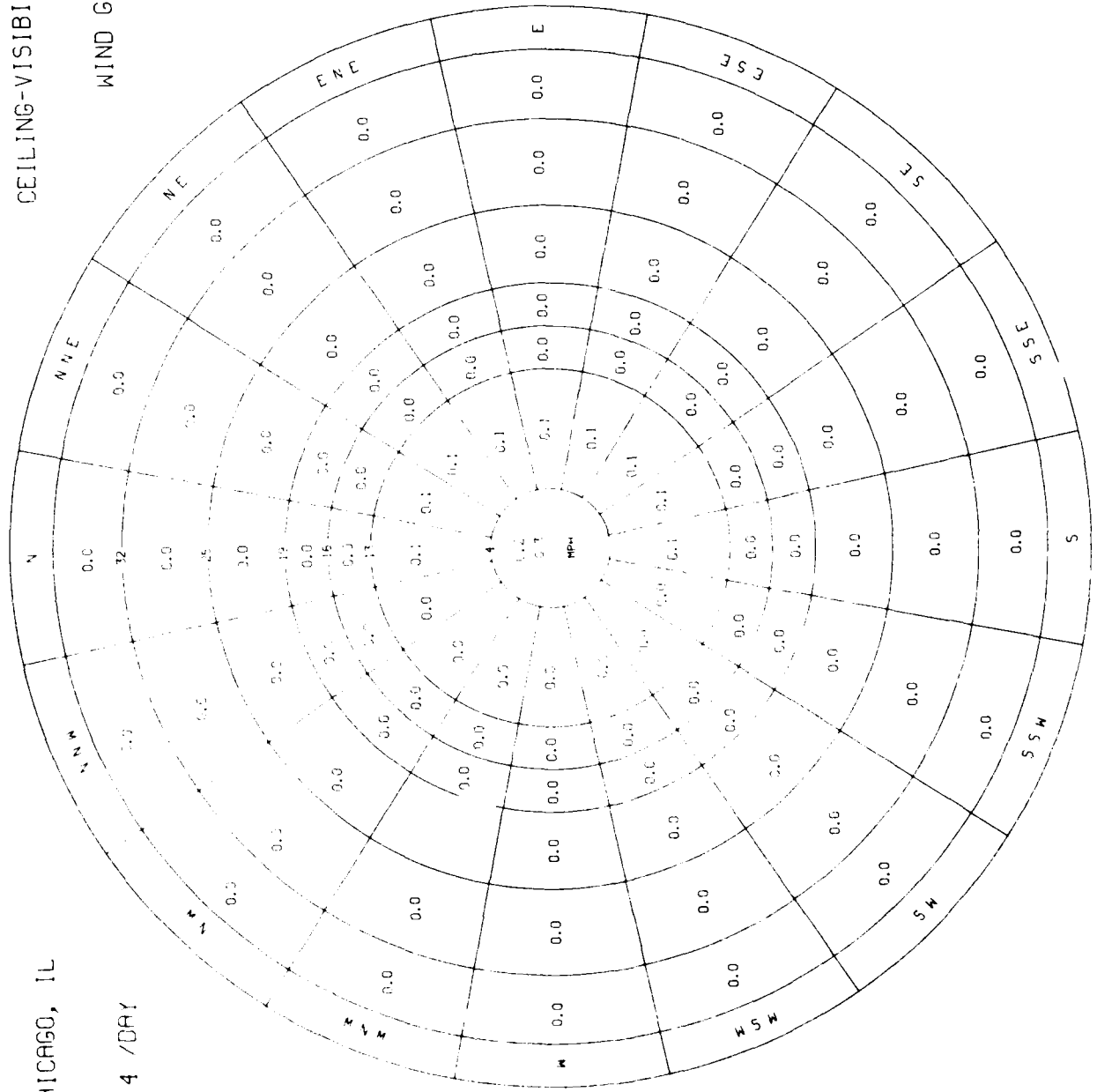
NO. OBS.: 5146

STATION NUMBER: 94846

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED
	0-3			4-12			13-15			16-18			19-24			TOTAL
	A	B		A	B		A	B		A	B		A	B		
N	.0	.3		.7	5.3		.2	1.8		.1	1.2		.1	.6		1.2 9.5 11.7
NNE	.0	.3		.5	4.2		.3	2.0		.2	1.3		.1	.7		1.1 8.7 12.5
NE	.1	.5		.5	3.8		.1	1.1		.1	.9		.1	.7		.9 7.0 11.5
ENE	.0	.1		.3	2.4		.1	.7		.1	.6		.0	.3		.5 4.2 11.6
E	.0	.3		.3	2.6		.1	.8		.1	.4		.0	.2		.5 4.4 10.5
ESE	.0	.2		.3	2.8		.1	.7		.0	.4		.0	.2		.5 4.2 10.2
SE	.1	.4		.5	3.7		.1	.8		.0	.3		.0	.2		.7 5.4 9.5
SSE	.0	.3		.4	3.3		.1	.9		.0	.3		.0	.2		.6 5.0 10.0
S	.0	.4		.6	4.9		.2	1.7		.1	.6		.0	.4		1.0 8.1 11.0
SSW	.0	.2		.4	3.2		.2	1.2		.1	.9		.1	.5		.8 6.2 12.0
SW	.0	.3		.4	3.3		.1	.9		.1	.8		.1	.4		.7 5.8 11.9
WSW	.0	.2		.4	2.9		.1	.7		.1	.6		.1	.3		.7 5.2 12.7
W	.1	.5		.4	3.3		.2	1.3		.1	.8		.1	.6		.9 7.0 12.6
WNW	.0	.2		.3	2.7		.1	.8		.1	.4		.0	.3		.6 4.5 11.0
NW	.1	.5		.4	3.0		.1	.9		.1	.4		.0	.3		.7 5.3 10.8
NNW	.0	.3		.3	2.7		.1	1.1		.1	.8		.1	.6		.7 5.8 12.6
CALM	.5	3.7														.5 3.7
TOTAL	1.1	8.6		6.8	54.0		2.2	17.4		1.4	10.9		.8	6.7		12.5 100 11.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 4 / DAY

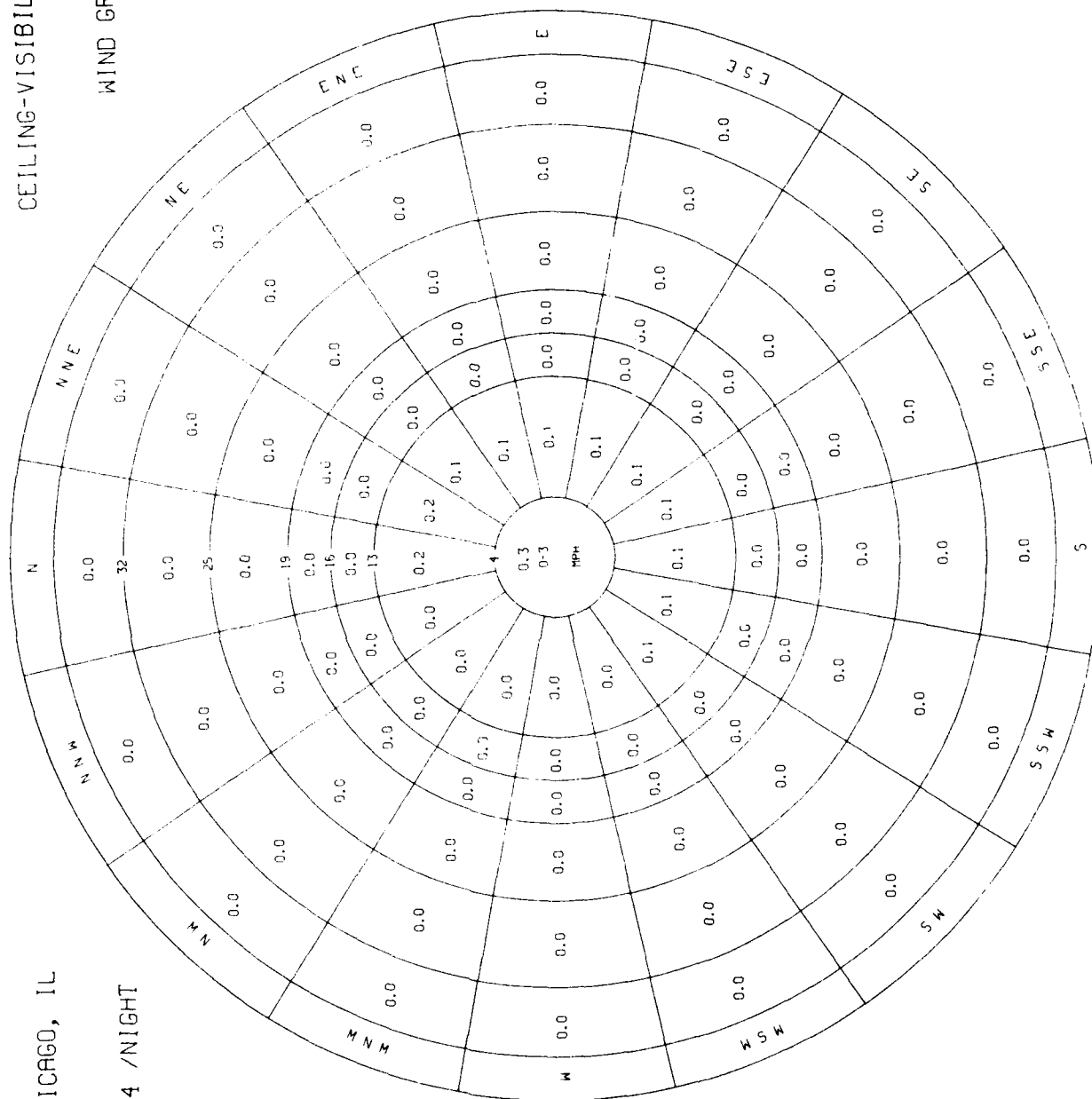
STATION NUMBER: 94346

NO. OBS.: 744

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.1	5.0	.0	1.6	.0	.8	.0	.5	.0	.4	.0	.1	.1 8.9
NNE	.0	.4	.1	8.9	.0	2.3	.0	1.6	.0	.7	.0	.1	.0	.0	.2 14.0
NE	.0	.3	.1	6.6	.0	.8	.0	.9	.0	.8	.0	.1	.0	.0	.2 9.5
ENE	.0	.1	.1	5.4	.0	.7	.0	1.3	.0	.3	.0	.1	.0	.0	.1 7.9
E	.0	.1	.1	4.3	.0	1.1	.0	.3	.0	.0	.0	.1	.0	.0	.1 5.9
ESE	.0	.4	.1	3.4	.0	.3	.0	.5	.0	.5	.0	.0	.0	.0	.1 5.1
SE	.0	.5	.1	4.0	.0	.7	.0	.1	.0	.4	.0	.0	.0	.0	.1 5.8
SSE	.0	.8	.1	3.6	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.1 6.2
S	.0	.9	.1	5.0	.0	1.5	.0	.9	.0	.4	.0	.0	.0	.0	.1 8.7
SSW	.0	.1	.0	2.4	.0	.9	.0	.3	.0	.3	.0	.0	.0	.0	.1 4.0
SW	.0	.0	.0	2.4	.0	.8	.0	.4	.0	.1	.0	.0	.0	.0	.1 3.8
WSW	.0	.1	.0	.7	.0	.4	.0	.4	.0	.1	.0	.1	.0	.0	.0 1.9
W	.0	.4	.0	1.5	.0	.3	.0	.1	.0	.4	.0	.3	.0	.1	.0 3.1
WNW	.0	.3	.0	1.6	.0	.1	.0	.1	.0	.3	.0	.3	.0	.0	.0 2.7
NW	.0	.5	.0	1.3	.0	.0	.0	.7	.0	.3	.0	.0	.0	.0	.0 2.8
NNW	.0	.7	.0	1.6	.0	1.2	.0	.7	.0	.4	.0	.0	.0	.0	.1 4.6
CALM	.1	5.1													.1 5.1
TOTAL	.2	11.3	.9	57.7	.2	14.0	.2	9.7	.1	5.5	.0	1.6	.0	.3	1.6 100

ORD CHICAGO, IL

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 4 / NIGHT

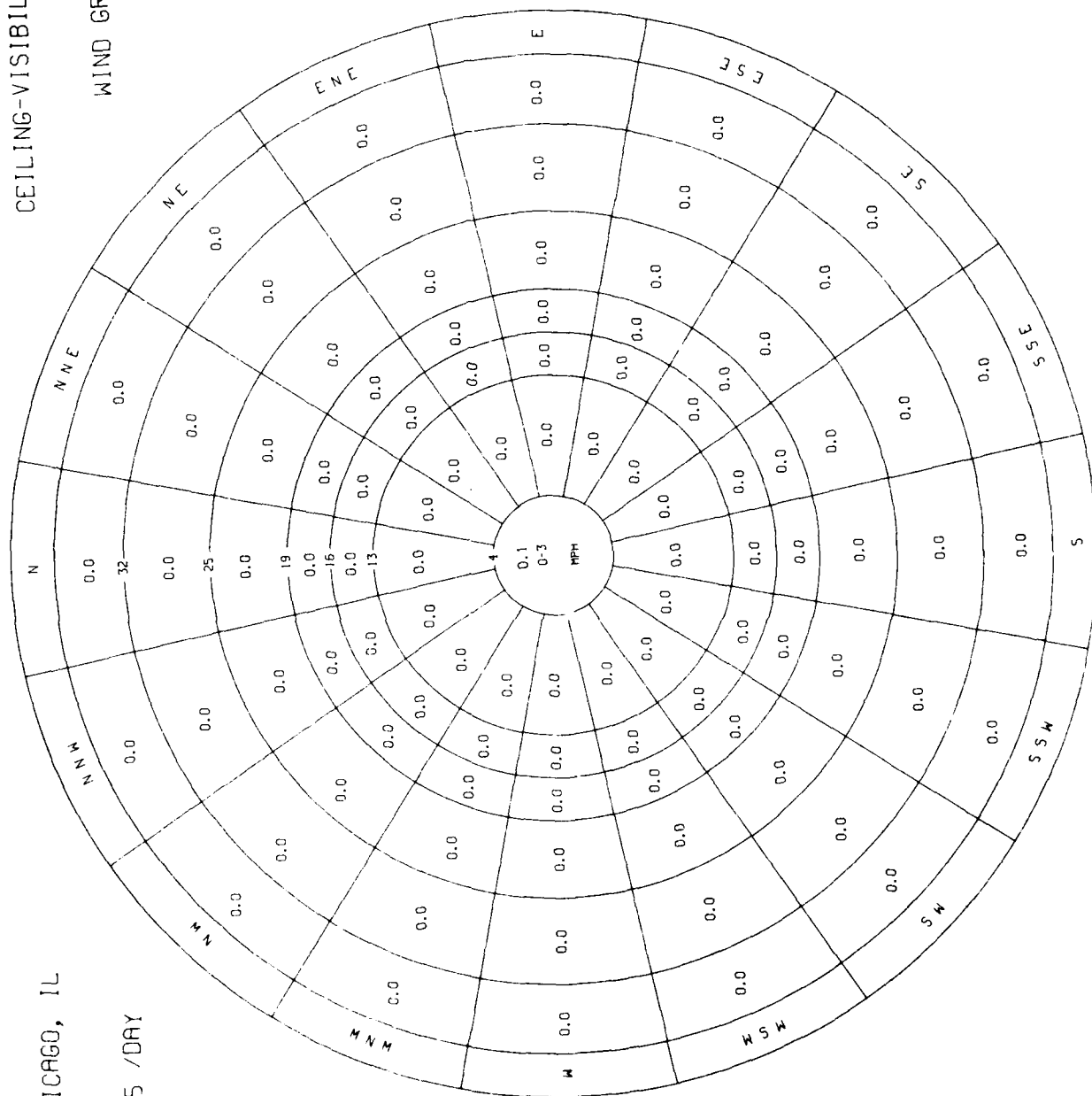
STATION NUMBER: 94846

NO. OBS.: 760

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.2	8.7	.0	1.1	.0	.3	.0	.3	.0	.3	.0	.0	.2 11.1
NNE	.0	1.1	.2	8.7	.0	1.6	.0	.7	.0	.3	.0	.3	.0	.0	.2 12.5
NE	.0	.5	.1	4.5	.0	.7	.0	.8	.0	.5	.0	.3	.0	.0	.1 7.2
ENE	.0	.1	.1	3.8	.0	1.1	.0	.7	.0	.4	.0	.0	.0	.0	.1 6.1
E	.0	.4	.1	3.7	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.1 5.1
ESE	.0	.3	.1	3.7	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1 4.7
SE	.0	.0	.1	3.8	.0	.9	.0	.3	.0	.0	.0	.0	.0	.0	.1 5.0
SSE	.0	.3	.1	4.1	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1 5.0
S	.0	.5	.1	6.4	.0	.9	.0	.4	.0	.5	.0	.0	.0	.1	.2 8.9
SSW	.0	.3	.1	3.8	.0	1.3	.0	.3	.0	.3	.0	.3	.0	.0	.1 6.2
SW	.0	.7	.1	3.4	.0	.9	.0	.1	.0	.1	.0	.1	.0	.0	.1 5.4
WSW	.0	.0	.0	1.8	.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0 2.6
W	.0	.9	.0	2.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1 3.8
WNW	.0	.3	.0	1.6	.0	.1	.0	.0	.0	.5	.0	.0	.0	.0	.0 2.5
NW	.0	.4	.0	1.6	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0 2.5
NNW	.0	.4	.0	2.2	.0	.7	.0	.4	.0	.4	.0	.0	.0	.0	.1 4.1
CALM	.1	7.2													.1 7.2
TOTAL	.3	13.8	1.2	64.5	.2	11.7	.1	4.6	.1	3.8	.0	1.3	.0	.3	1.9 100
															9.0

CEILING-VISIBILITY

WIND GRAPH



ORD CHICAGO, IL

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: OPD CHICAGO, IL

PERIOD: 1949-1978

CLASS 5 / DAY

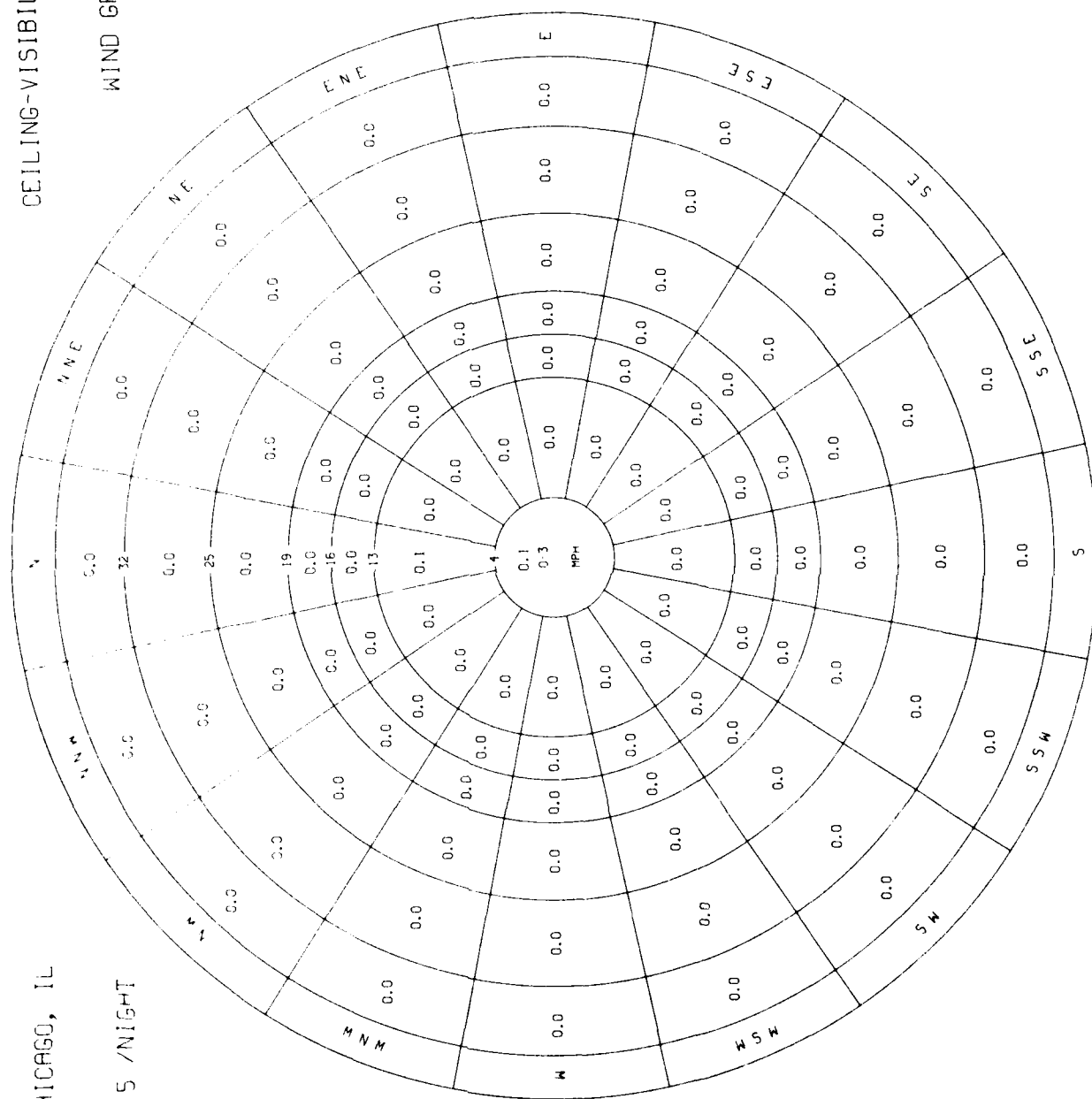
STATION NUMBER: 94846

NO. OBS.: 164

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	6.1	.0	.6	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	9.8	10.8
NNE	.0	.0	.0	6.7	.0	1.2	.0	1.2	.0	1.8	.0	.6	.0	.0	.0	11.6	13.0
NE	.0	1.2	.0	6.1	.0	.0	.0	1.2	.0	1.2	.0	.6	.0	.0	.0	10.4	11.1
ENE	.0	1.8	.0	4.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.6
E	.0	.6	.0	6.7	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	7.9	8.5
ESE	.0	.6	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.1
SE	.0	.0	.0	4.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	7.7
SSE	.0	.6	.0	1.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	7.6
S	.0	.6	.0	.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	10.6
SSW	.0	.0	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.0
SW	.0	1.2	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	7.4
WSW	.0	.6	.0	1.8	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	3.7	10.3
W	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	4.3	10.6
WNW	.0	.0	.0	3.7	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	4.3	8.0
NW	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	3.0	9.6
NNW	.0	.6	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.3
CALM	.0	6.7													.0	6.7	
TOTAL	1	15.5	12	5.2	10	8.1	10	4.9	10	4.9	10	2.4	10	.0	.4	100	8.8

CEILING-VISIBILITY

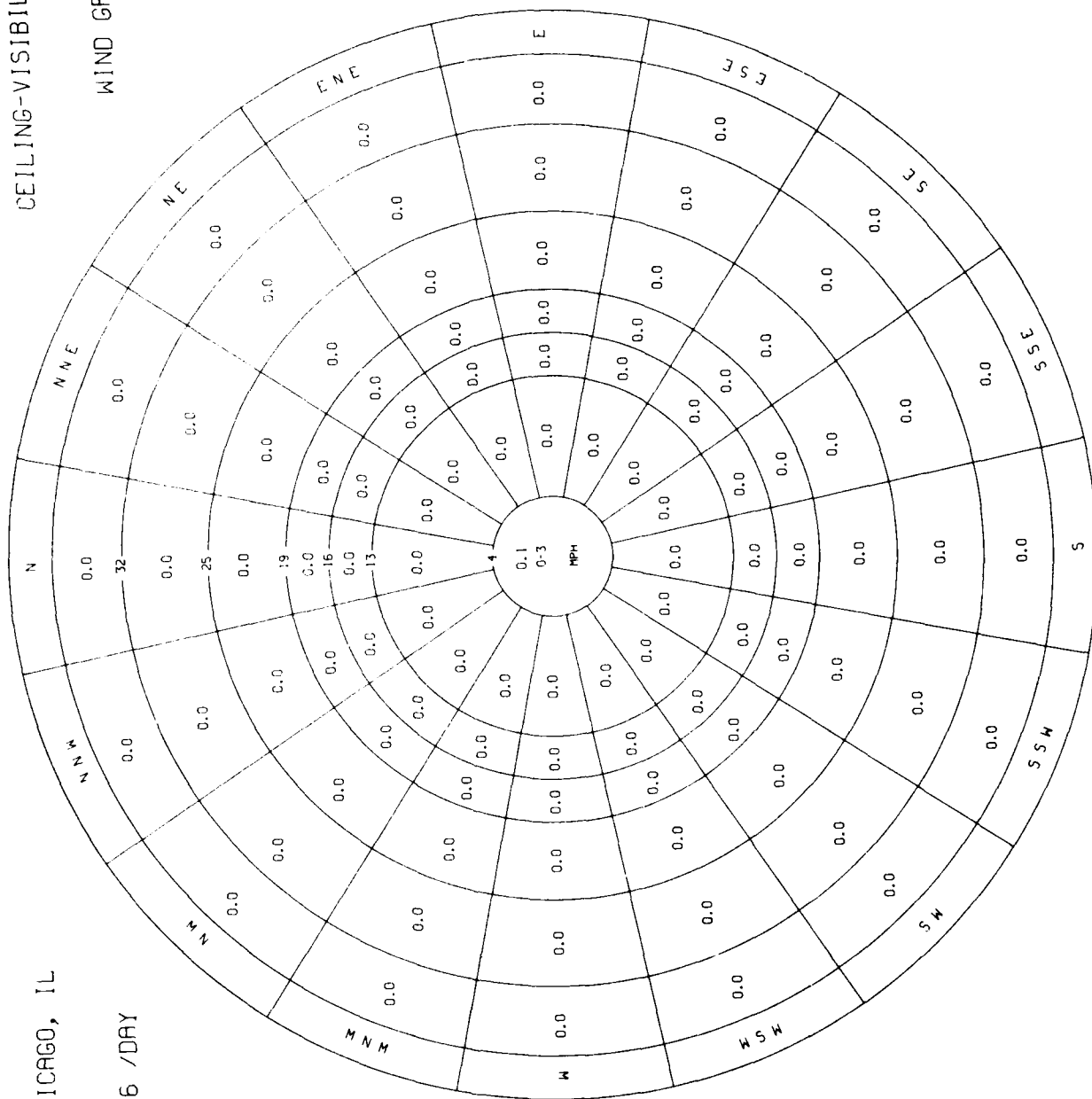
WIND GRAPH



CEILING-VISIBILITY WIND GRAPH

ORD CHICAGO, IL

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: ORD CHICAGO, IL

CLASS 6 / DAY

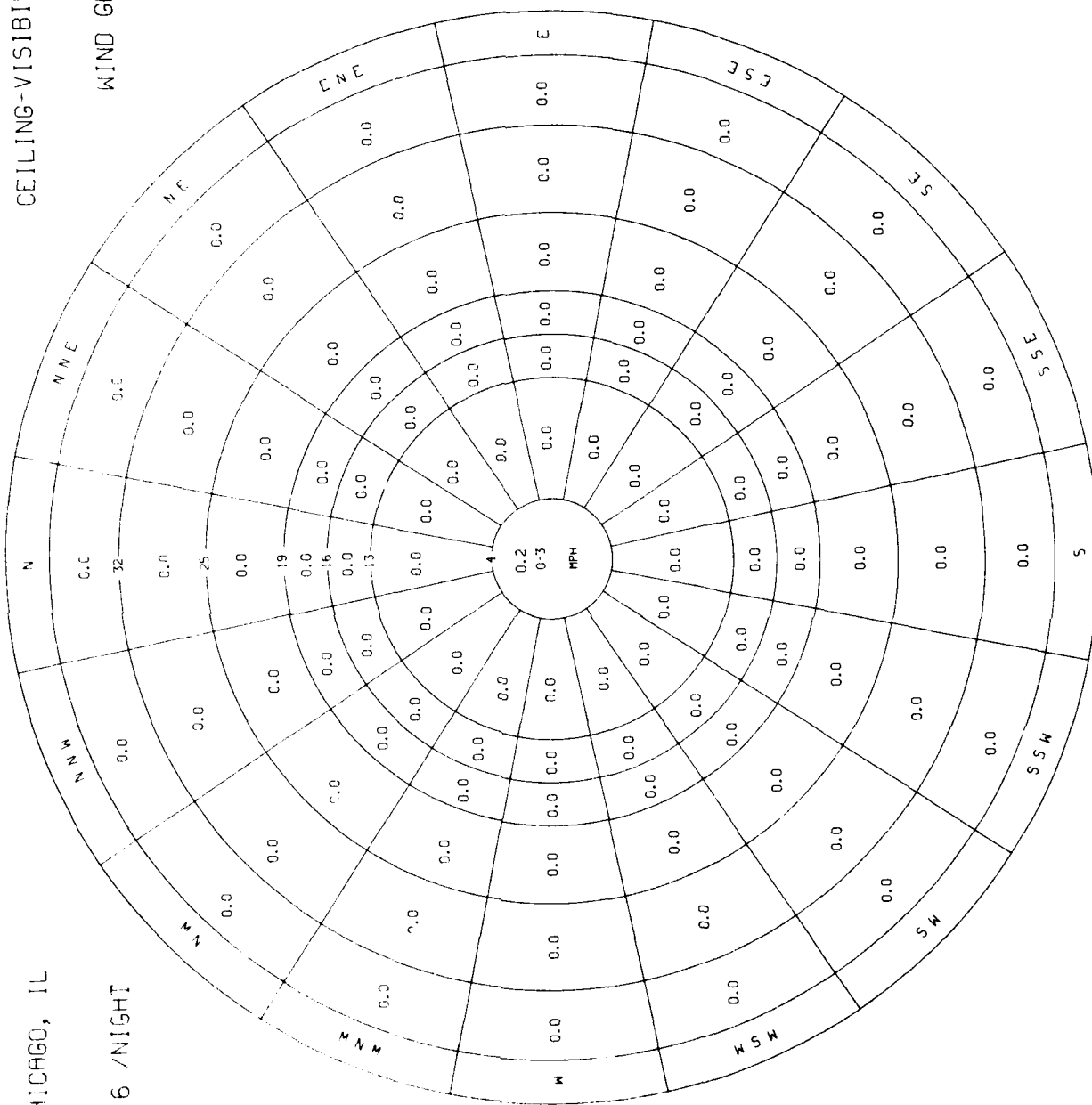
NO. OBS.: 154

STATION NUMBER: 94846

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	3.9	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.7	5.1
NNE	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.7
NE	.0	1.9	.0	3.2	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	7.1	8.7
ENE	.0	.6	.0	5.2	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	7.8	9.1
E	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.7
ESE	.0	.0	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	8.0
SE	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	7.3
SSE	.0	.6	.0	3.9	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	5.2	6.9
S	.0	1.3	.0	11.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	7.7
SSW	.0	.6	.0	3.2	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	4.5	8.3
SW	.0	.0	.0	4.5	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	5.2	7.9
WSW	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.2
W	.0	.6	.0	1.3	.0	.6	.0	.6	.0	.6	.0	.0	.6	.0	.0	3.2	12.8
WNW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	3.2	8.8
NW	.0	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.0
NNW	.0	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	2.6	12.0
CALM	.0	14.3													.0	14.3	
TOTAL	.1	28.6	.2	61.0	.0	5.2	.0	2.6	.0	1.3	.0	.6	.0	.6	.3	100	6.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

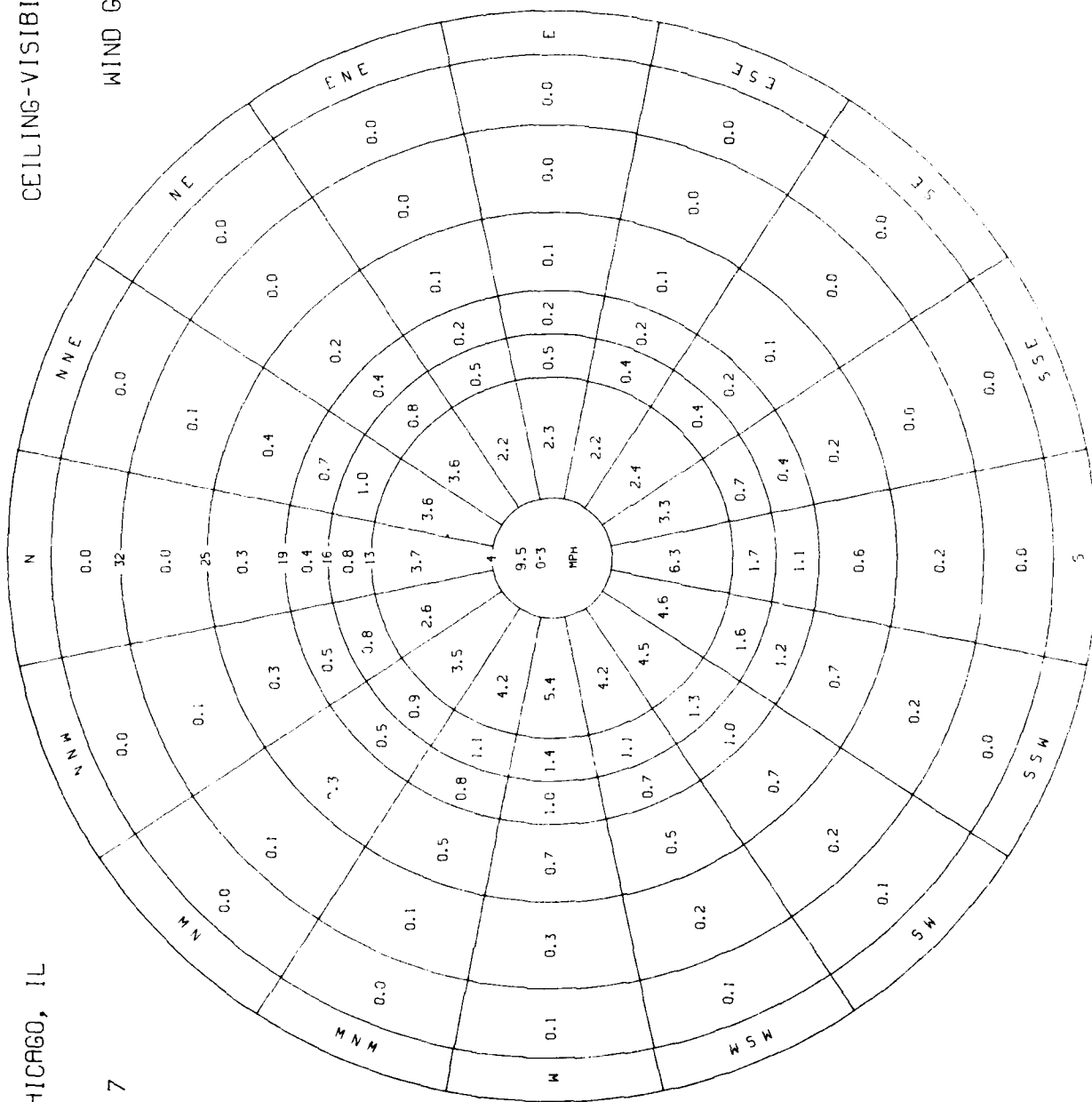
CLASS 6 / NIGHT

STATION NUMBER: 94846

NO. OBS.: 252

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.8	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	5.8
NNE	.0	.4	.0	5.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	6.3	7.9
NE	.0	1.2	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	5.6	7.1
ENE	.0	.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.0
E	.0	.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.5
ESE	.0	.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.2
SE	.0	.8	.0	2.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.3
SSE	.0	.4	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.9
S	.0	1.2	.0	5.6	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	7.1	7.2
SSW	.0	.0	.0	4.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	4.4	7.8
SW	.0	.8	.0	4.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	7.8
WSW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.7
W	.0	2.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	5.3
WNW	.0	1.2	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	4.5
NW	.0	1.6	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	4.0	4.5
NNW	.0	1.2	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.4
CALM	.2	27.4													.2	27.4	
TOTAL	.2	40.5	.3	56.7	.0	.8	.0	.8	.0	.4	.0	.8	.0	.0	.6	100	4.8

ORD CHICAGO, IL
 CLASS 7

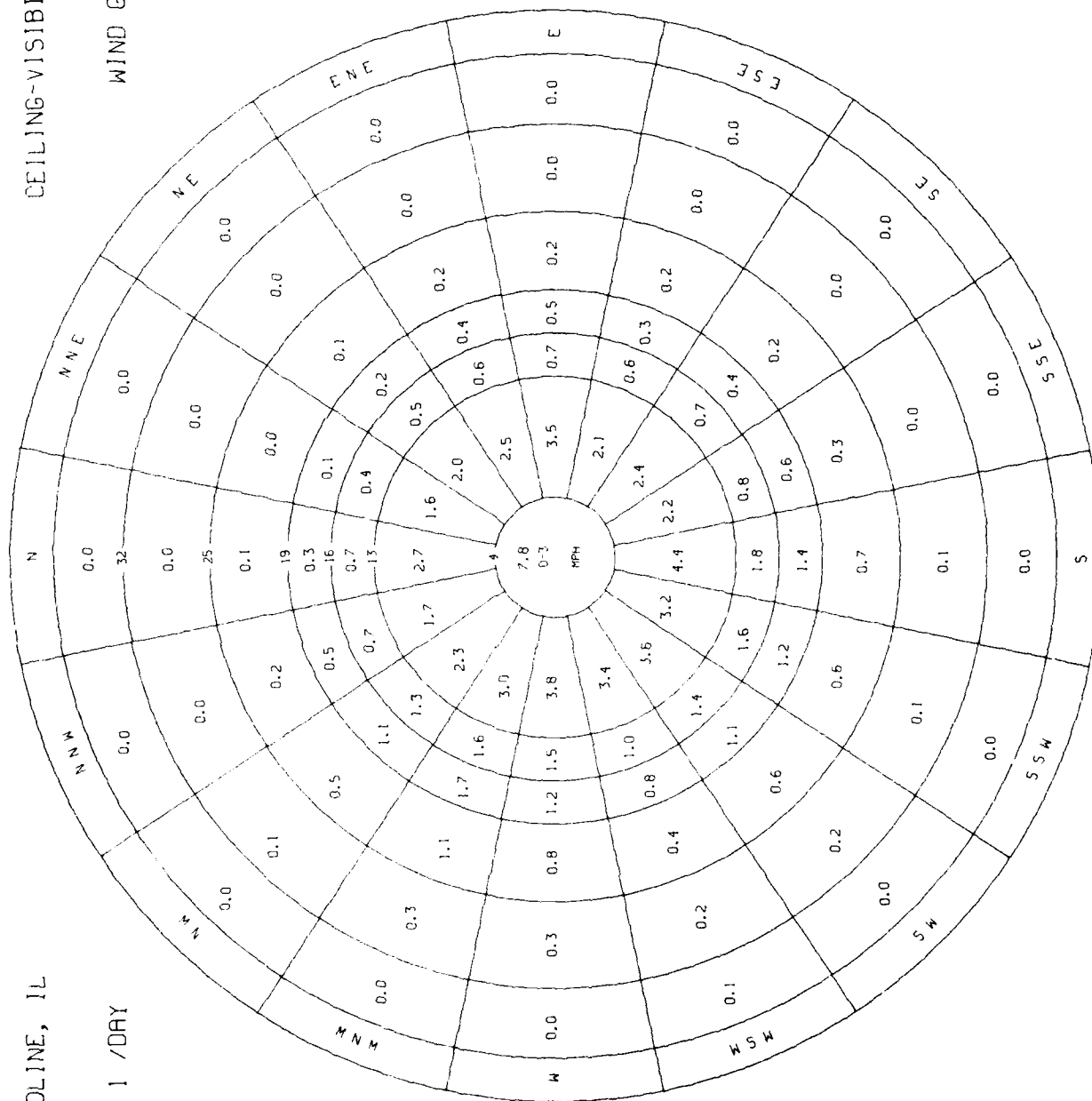


CEILING-VISIBILITY

WIND GRAPH

MLI MOLINE, IL

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MO LINE, IL

PERI : 1949-1978

CLASS 1 / DAY

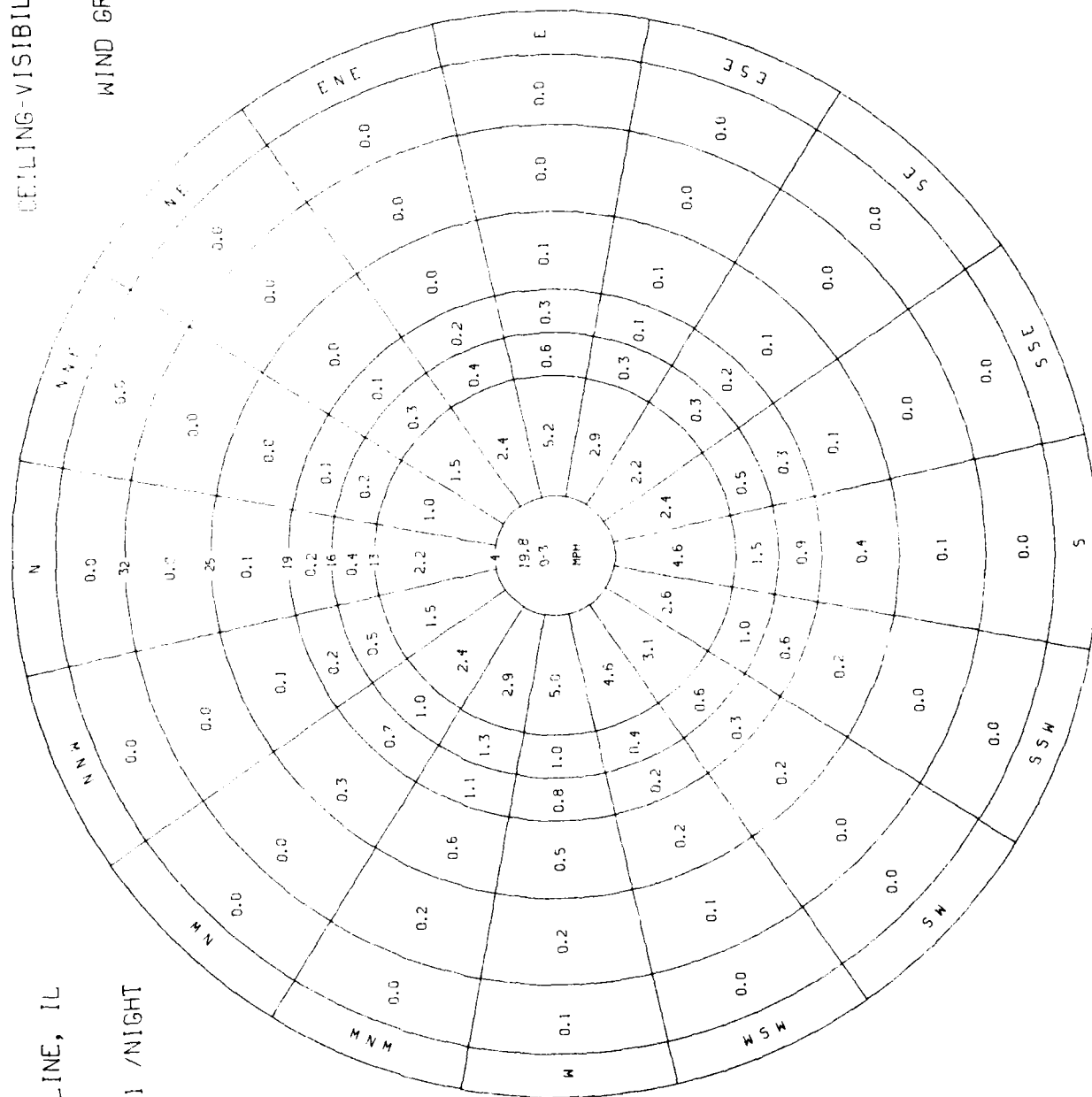
STATION NUMBER: 14923

NO. OBS.: 41411

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.2	.2	2.7	3.1	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.0	4.6
NNE	.1	.2	1.6	1.9	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	2.3	2.7
NE	.2	.2	2.0	2.3	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.0	3.4
ENE	.2	.2	2.5	2.8	.6	.7	.4	.4	.2	.2	.0	.0	.0	.0	3.8	4.3
E	.4	.5	3.5	4.0	.7	.9	.5	.5	.2	.2	.0	.0	.0	.0	5.3	6.1
ESE	.3	.3	2.1	2.4	.6	.6	.3	.4	.2	.2	.0	.0	.0	.0	3.5	4.0
SE	.3	.3	2.4	2.7	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	3.9	4.5
SSE	.2	.2	2.2	2.5	.8	.9	.6	.7	.3	.3	.0	.1	.0	.0	4.1	4.7
S	.3	.3	4.4	5.0	1.8	2.1	1.4	1.6	.7	.8	.1	.1	.0	.0	8.7	10.0
SSW	.2	.2	3.2	3.6	1.6	1.8	1.2	1.3	.6	.7	.1	.2	.0	.0	6.8	7.8
SW	.3	.4	3.6	4.1	1.4	1.6	1.1	1.2	.5	.6	.2	.2	.0	.0	7.1	8.1
WSW	.3	.3	3.4	3.9	1.0	1.1	.8	.9	.4	.5	.2	.2	.1	.1	6.1	7.0
W	.3	.4	3.8	4.4	1.5	1.7	1.2	1.3	.8	.9	.3	.4	.0	.1	8.0	9.2
WNW	.1	.1	3.0	3.4	1.6	1.9	1.7	1.9	1.1	1.3	.3	.4	.0	.1	7.9	9.0
NW	.2	.2	2.3	2.6	1.3	1.5	1.1	1.2	.5	.6	.1	.1	.0	.0	5.4	6.2
NNW	.1	.1	1.7	2.0	.7	.8	.5	.5	.2	.2	.0	.0	.0	.0	3.2	3.6
CALM	4.1	4.7													4.1	4.7
TOTAL	7.8	8.9	44.3	50.8	15.8	18.1	11.6	13.3	5.9	6.8	1.6	1.8	.2	.3	87.2	100
																11.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: MLI MOLINE, IL

CLASS 1 / NIGHT

NO. OBS.: 34776

STATION NUMBER: 14923

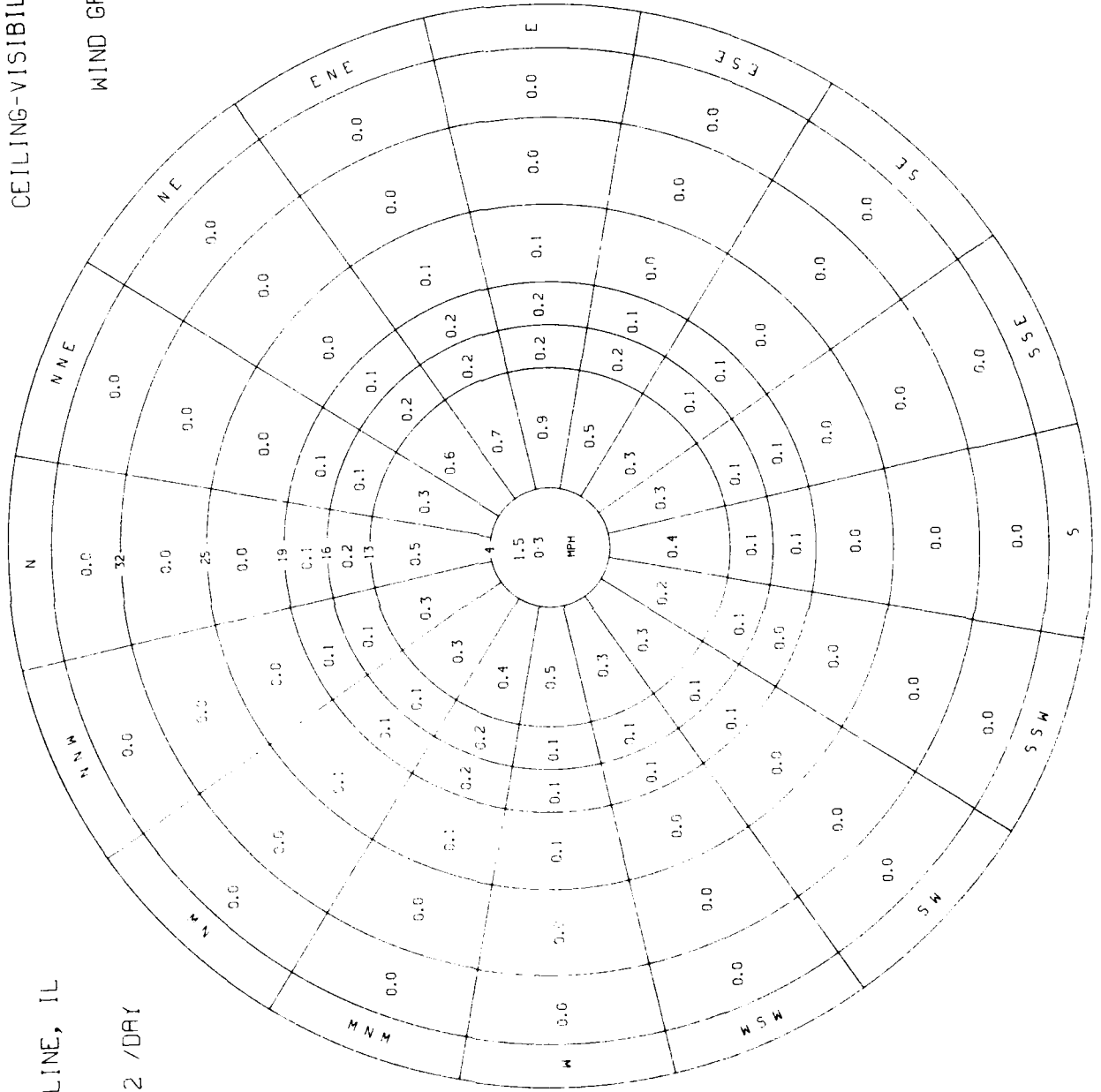
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B				
																	C	D
N	.2	.3	2.2	2.5	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	3.0	3.5	9.1
NNE	.1	.1	1.0	1.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	1.4	1.7	8.8
NE	.2	.3	1.5	1.7	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	2.1	2.5	8.8
ENE	.3	.3	2.4	2.7	.4	.5	.2	.2	.0	.1	.0	.0	.0	.0	.0	3.3	3.8	8.9
E	1.2	1.4	5.2	6.0	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	.0	7.3	8.4	7.7
ESE	.7	.8	2.9	3.4	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	4.1	4.7	7.5
SE	.6	.7	2.2	2.6	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	3.5	4.0	8.3
SSE	.3	.3	2.4	2.7	.5	.6	.3	.4	.1	.2	.0	.0	.0	.0	.0	3.7	4.3	10.1
S	.5	.6	4.6	5.3	1.5	1.8	.9	1.1	.4	.5	.1	.1	.0	.0	.0	8.0	9.3	11.1
SSW	.3	.4	2.6	3.0	1.0	1.2	.6	.7	.2	.3	.0	.0	.0	.0	.0	4.8	5.5	11.2
SW	.7	.8	3.1	3.5	.6	.7	.3	.4	.2	.2	.0	.0	.0	.0	.0	4.9	5.6	9.2
WSW	.6	.8	4.6	5.4	.4	.5	.2	.3	.2	.2	.1	.1	.0	.0	.0	6.2	7.1	8.4
W	.6	.7	5.0	5.8	1.0	1.1	.8	.9	.5	.6	.2	.2	.1	.1	.1	8.1	9.4	10.4
WNW	.2	.3	2.9	3.4	1.3	1.6	1.1	1.3	.6	.7	.2	.2	.0	.0	.0	6.4	7.4	12.8
NW	.2	.2	2.4	2.7	1.0	1.1	.7	.8	.3	.3	.0	.0	.0	.0	.0	4.5	5.2	11.9
NNW	.1	.1	1.5	1.8	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	2.4	2.8	10.7
CALM	12.8	14.8														12.8	14.8	
TOTAL	19.8	22.9	46.5	53.7	10.3	11.9	6.1	7.1	3.1	3.5	.7	.8	.2	.2		86.6	100	8.4

CEILING-VISIBILITY

WIND GRAPH

MLI MOLINE, IL

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 14923

NO. OBS.: 6072

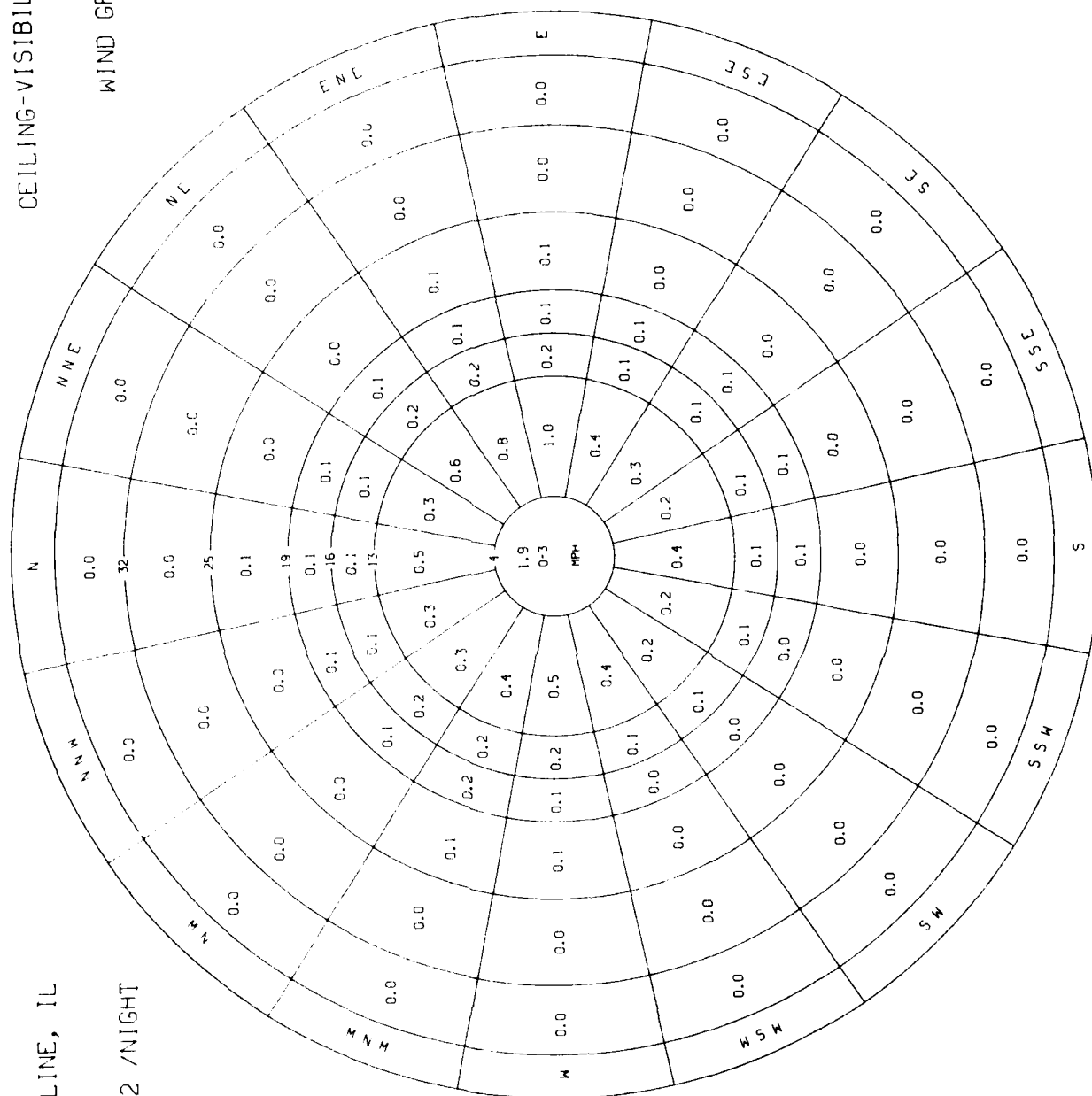
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.4	.5	3.6	.2	1.2	.1	.5	.0	.4	.0	.0	.0	.0	.8	6.1	10.8
NNE	.0	.1	.3	2.6	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.6	4.5	11.4
NE	.0	.2	.6	4.5	.2	1.5	.1	.9	.0	.3	.0	.0	.0	.0	1.0	7.5	11.1
ENE	.1	.4	.7	5.8	.2	1.7	.2	1.3	.1	.8	.0	.1	.0	.0	1.3	10.2	11.5
E	.1	1.1	.9	7.2	.2	1.9	.2	1.2	.1	.8	.0	.1	.0	.0	1.6	12.3	10.5
ESE	.1	.5	.5	3.6	.2	1.4	.1	.5	.0	.2	.0	.1	.0	.0	.8	6.4	10.6
SE	.0	.3	.3	2.6	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.6	4.5	10.9
SSE	.0	.2	.3	2.1	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.5	3.6	10.7
S	.0	.2	.4	3.3	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.7	5.4	11.1
SSW	.0	.2	.2	1.9	.1	.6	.0	.2	.0	.1	.0	.1	.0	.0	.4	3.1	10.5
SW	.0	.4	.3	2.3	.1	.7	.1	.4	.0	.1	.0	.0	.0	.1	.5	4.0	10.7
WSW	.0	.2	.3	2.2	.1	.6	.1	.5	.0	.3	.0	.1	.0	.0	.5	3.9	11.7
W	.0	.4	.5	3.7	.1	1.1	.1	.9	.1	.8	.0	.2	.0	.0	.9	7.0	12.2
WNW	.0	.2	.4	3.0	.2	1.4	.2	1.4	.1	.8	.0	.3	.0	.1	.9	7.2	13.7
NW	.0	.2	.3	2.2	.1	.6	.1	.7	.1	.4	.0	.1	.0	.0	.6	4.3	12.2
NNW	.0	.1	.3	2.2	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.5	3.8	11.0
CALM	.8	6.3													.8	6.3	
TOTAL	1.5	11.5	6.8	52.8	2.2	16.8	1.5	11.3	.7	5.8	.2	1.3	.0	.3	12.8	100	10.6

CEILING-VISIBILITY

WIND GRAPH

MLI MOLINE, IL

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

CLASS 2 / NIGHT

STATION NAME: MLI MSLINE, IL

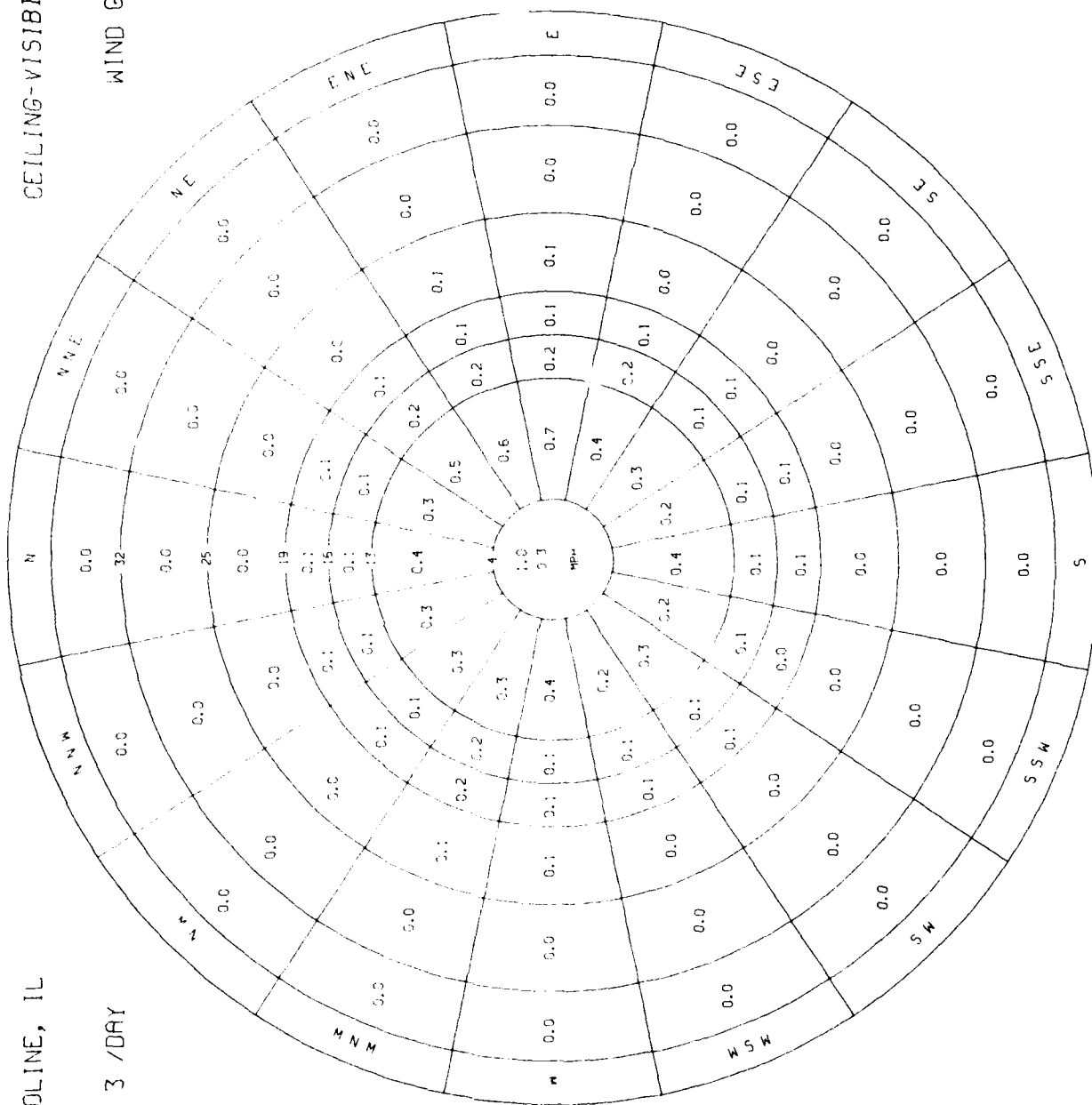
STATION NUMBER: 14923

NO. OBS.: 5391

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.5	4.0	.1	1.1	.1	.6	.1	.4	.0	.1	.0	.0	.9	6.8	10.7
NNE	.0	.3	.3	2.4	.1	.9	.1	.5	.0	.3	.0	.0	.0	.0	.6	4.4	11.1
N E	.1	.5	.6	4.4	.2	1.5	.1	.8	.0	.3	.0	.1	.0	.0	1.0	7.6	11.0
ENE	.1	.4	.8	5.7	.2	1.7	.1	1.1	.1	.6	.0	.1	.0	.0	1.3	9.6	11.2
E	.9	.9	1.0	7.7	.2	1.3	.1	1.0	.1	.5	.0	.1	.0	.0	1.5	11.5	10.0
ESE	.1	.4	.4	3.2	.1	.9	.1	.5	.0	.3	.0	.0	.0	.0	.7	5.4	10.1
SE	.1	.5	.3	2.2	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.5	3.8	9.9
SSE	.0	.1	.2	1.7	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	.4	3.3	11.5
S	.0	.3	.4	2.9	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	.6	4.8	10.7
SSW	.0	.2	.2	1.7	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.6	9.7
SW	.0	.4	.2	1.8	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.1	10.4
WSW	.1	.5	.4	3.1	.1	.6	.0	.3	.0	.2	.0	.1	.0	.0	.6	4.8	10.0
W	.1	.5	.5	4.0	.2	1.2	.1	1.0	.1	.6	.0	.1	.0	.0	1.0	7.4	11.4
WNW	.0	.2	.4	3.1	.2	1.5	.2	1.4	.1	.9	.0	.3	.0	.0	1.0	7.4	13.7
NW	.0	.1	.3	2.3	.2	1.2	.1	.8	.0	.2	.0	.1	.0	.0	.6	4.8	12.7
NNW	.0	.1	.3	2.3	.1	.6	.1	.5	.0	.4	.0	.0	.0	.0	.5	4.0	11.9
CALM	.1	.8	.5												1.1	8.5	
TOTAL	.3	14.5	7.0	52.4	2.1	15.3	1.4	10.3	.8	5.7	.2	1.3	.0	.1	13.4	100	10.1

CEILING-VISIBILITY

WIND GRAPH



MLI MOBILE, IL

CLASS 3 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 3 / DAY

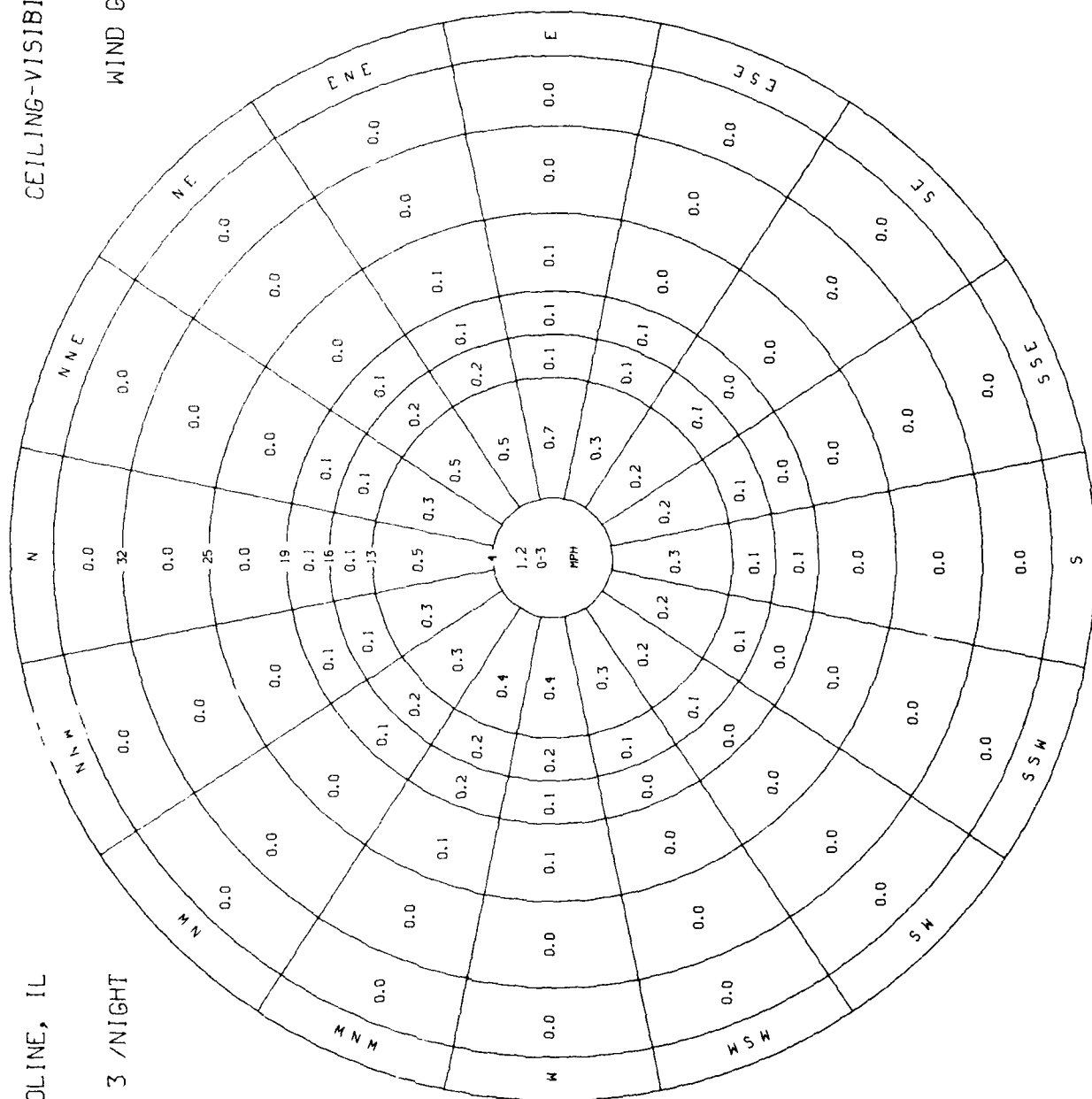
STATION NUMBER: 14923

NO. OBS.: 5107

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.3	.4	3.7	.1	1.2	.1	.5	.0	.3	.0	.0	.0	.0	.0	.7	6.1	11.0
NNE	.0	.2	.3	2.5	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.0	.5	4.4	11.4
NE	.0	.2	.5	4.5	.2	1.5	.1	.9	.0	.3	.0	.1	.0	.0	.0	.8	7.5	11.3
ENE	.0	.4	.6	5.4	.2	1.7	.1	1.3	.1	.9	.0	.1	.0	.0	.0	1.1	9.8	11.8
E	.1	.8	.7	6.4	.2	1.8	.1	1.3	.1	.9	.0	.1	.0	.0	.0	1.2	11.3	11.0
ESE	.0	.4	.4	3.4	.2	1.5	.1	.5	.0	.2	.0	.1	.0	.0	.0	.7	6.1	11.0
SE	.0	.3	.3	2.7	.1	.8	.1	.7	.0	.2	.0	.0	.0	.0	.0	.5	4.7	11.2
SSE	.0	.2	.2	2.1	.1	.8	.1	.6	.0	.1	.0	.0	.0	.0	.0	.4	3.7	11.1
S	.0	.2	.4	3.6	.1	1.1	.1	.7	.0	.2	.0	.0	.0	.0	.0	.6	5.8	11.2
SSW	.0	.2	.2	2.2	.1	.6	.0	.2	.0	.1	.0	.1	.0	.0	.0	.4	3.4	10.7
SW	.0	.4	.3	2.4	.1	.8	.1	.5	.0	.1	.0	.0	.0	.1	.0	.5	4.2	10.8
WSW	.0	.1	.2	2.3	.1	.7	.1	.5	.0	.3	.0	.1	.0	.0	.0	.4	4.2	12.1
W	.0	.4	.4	3.6	.1	1.2	.1	1.0	.1	.9	.0	.2	.0	.1	.0	.8	7.4	12.7
WNW	.0	.2	.3	3.1	.2	1.6	.2	1.6	.1	.8	.0	.3	.0	.1	.0	.8	7.8	13.9
NW	.0	.2	.3	2.3	.1	.7	.1	.8	.0	.4	.0	.1	.0	.0	.0	.5	4.6	12.3
NNW	.0	.1	.3	2.3	.1	.9	.1	.5	.0	.1	.0	.0	.0	.0	.0	.4	4.0	11.0
CALM	.5	4.8														.5	4.8	
TOTAL	1.0	9.3	5.7	52.6	1.9	17.9	1.3	12.4	.7	6.1	.1	1.4	.0	.4	10.8	100		11.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

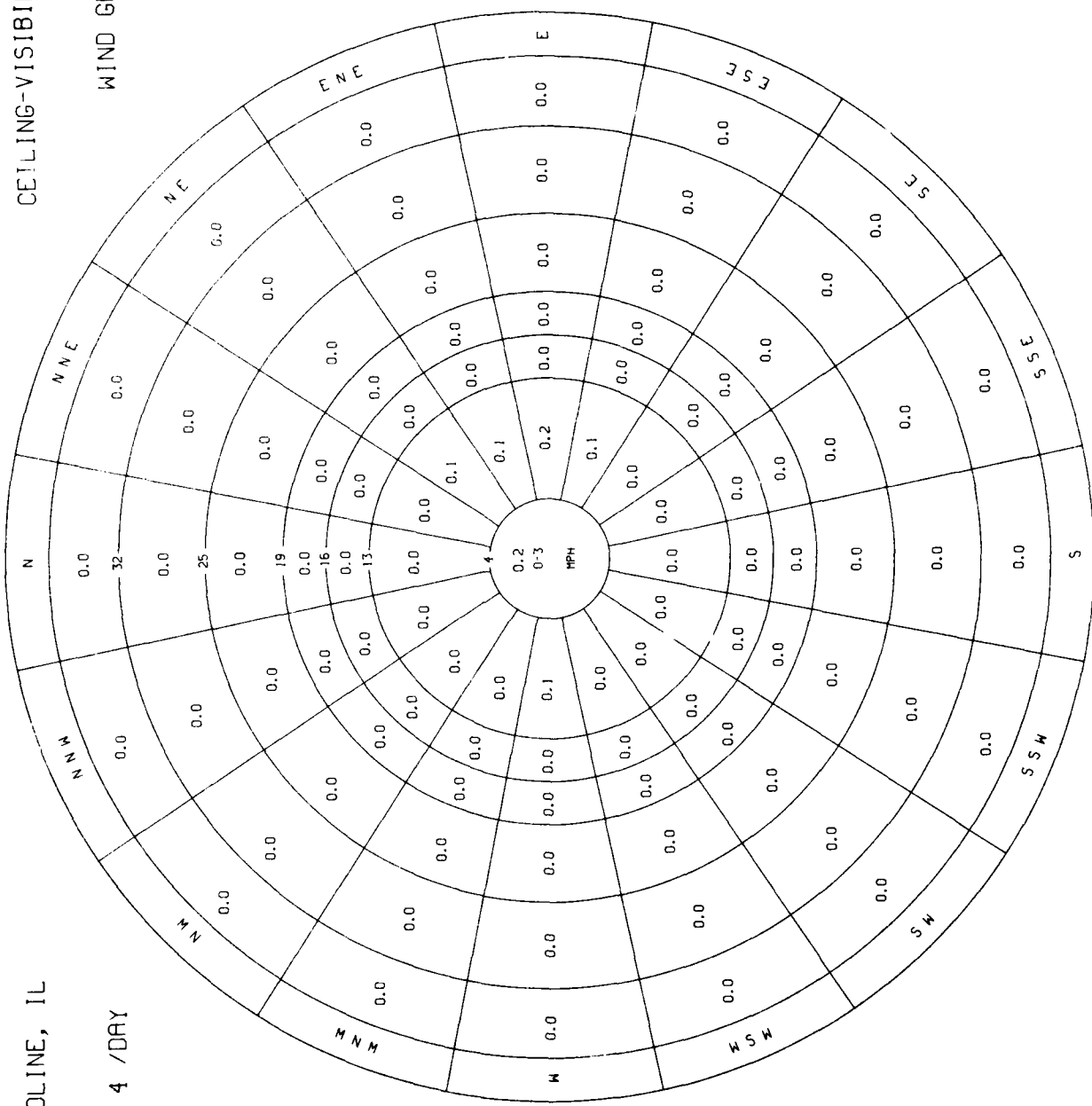
CLASS 3 / NIGHT

NO. OBS.: 4323

STATION NUMBER: 14923

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.0	.4	.5	4.5	.1	1.3	.1	.7	.0	.3	.0	.1	.0	.0	.8	7.3	10.7	
NNE	.0	.3	.3	2.5	.1	1.0	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.7	11.3	
NE	.1	.5	.5	4.5	.2	1.5	.1	.9	.0	.4	.0	.1	.0	.0	.9	8.0	11.1	
ENE	.0	.4	.5	5.0	.2	1.8	.1	1.1	.1	.6	.0	.1	.0	.0	1.0	9.1	11.7	
E	.1	.9	.7	6.8	.1	1.3	.1	1.1	.1	.5	.0	.1	.0	.0	1.2	10.8	10.3	
ESE	.0	.3	.3	2.8	.1	1.0	.1	.6	.0	.3	.0	.0	.0	.0	.5	5.0	10.7	
SE	.0	.4	.2	2.0	.1	.6	.0	.5	.0	.2	.0	.0	.0	.0	.4	3.6	10.5	
SSE	.0	.1	.2	1.4	.1	.9	.0	.4	.0	.2	.0	.0	.0	.0	.3	3.1	12.1	
S	.0	.2	.3	2.9	.1	1.1	.1	.5	.0	.3	.0	.0	.0	.0	.5	5.0	11.3	
SSW	.0	.2	.2	1.8	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.3	2.9	10.0	
SW	.0	.3	.2	1.8	.1	.5	.0	.3	.0	.2	.0	.0	.0	.0	.3	3.1	11.2	
WSW	.0	.3	.3	3.1	.1	.7	.0	.4	.0	.3	.0	.1	.0	.0	.5	5.0	10.6	
W	.0	.3	.4	4.0	.2	1.4	.1	1.2	.1	.8	.0	.1	.0	.0	.8	7.9	12.1	
WNW	.0	.2	.4	3.3	.2	1.9	.2	1.7	.1	1.2	.0	.4	.0	.0	.9	8.6	14.1	
NW	.0	.0	.3	2.5	.2	1.5	.1	1.0	.0	.3	.0	.1	.0	.0	.6	5.4	12.8	
NNW	.0	.1	.3	2.6	.1	.7	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.4	11.7	
CALM	.7	6.1													.7	6.1		
TOTAL	1.2	11.1	5.6	51.7	1.5	17.8	1.3	11.8	.7	6.2	.1	1.3	.0	.2	10.8	100	10.8	

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 4 / 1A

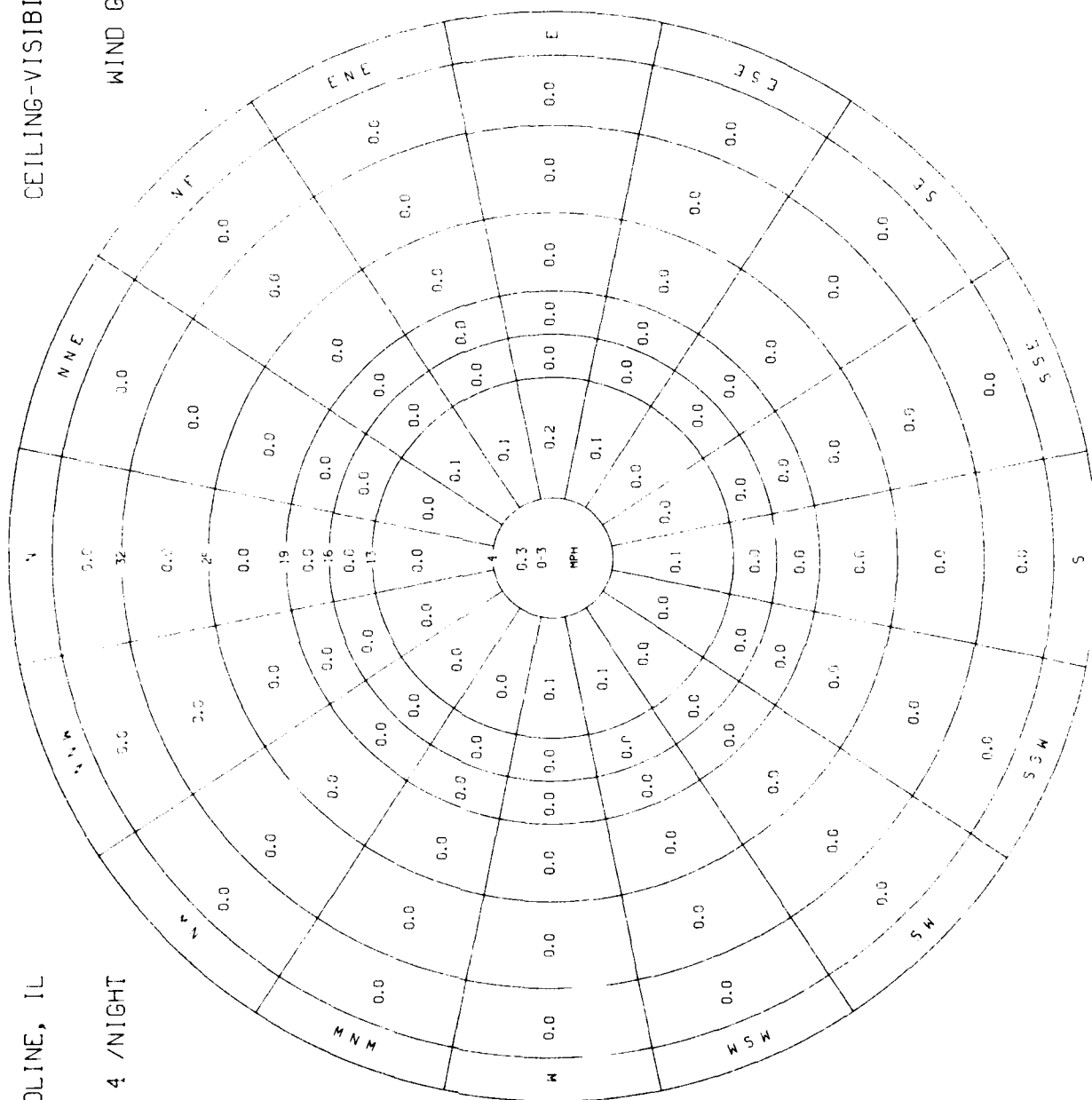
STATION NUMBER: 14923

NO. OBS.: 680

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.2	.0	3.4	.0	1.8	.0	.9	.0	.7	.0	.0	.0	.0	.1 7.9
NNE	.0	.0	.0	3.2	.0	.4	.0	.7	.0	.1	.0	.0	.0	.0	.1 4.6
NE	.0	.3	.1	5.0	.0	1.5	.0	.7	.0	.4	.0	.0	.0	.0	.1 7.9
ENE	.0	.4	.1	8.4	.0	2.1	.0	1.0	.0	.6	.0	.1	.0	.0	.2 12.6
E	.0	1.6	.2	10.6	.0	1.9	.0	1.0	.0	.6	.0	.0	.0	.0	.2 15.7
ESE	.0	1.0	.1	4.9	.0	1.2	.0	.6	.0	.6	.0	.0	.0	.0	.1 8.2
SE	.0	.3	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.8
SSE	.0	.6	.0	2.1	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0 3.2
S	.0	.6	.0	2.1	.0	.4	.0	.6	.0	.4	.0	.0	.0	.0	.1 4.1
SSW	.0	.3	.0	.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
SW	.0	.3	.0	1.6	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0 2.4
WSW	.0	.3	.0	1.9	.0	.1	.0	.1	.0	.3	.0	.0	.0	.0	.0 2.8
W	.0	.3	.1	3.5	.0	.3	.0	.3	.0	.0	.0	.1	.0	.0	.1 4.6
WNW	.0	.1	.0	2.4	.0	.9	.0	.4	.0	.6	.0	.3	.0	.0	.1 4.7
NW	.0	.1	.0	1.8	.0	.1	.0	.1	.0	.3	.0	.1	.0	.1	.0 2.8
NNW	.0	.3	.0	2.1	.0	.4	.0	.6	.0	.3	.0	.0	.0	.0	.1 3.7
CALM	.1	9.3													.1 9.3
TOTAL	.2	17.1	.8	56.2	.2	13.2	.1	7.4	.1	5.1	.0	.7	.0	.3	1.4 100
															9.4

CEILING-VISIBILITY

WIND GRAPH



MLI MOLINE, IL

CLASS 4 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: MLI MOLINE, IL

CLASS 4 / NIGHT

NO. OBS.: 640

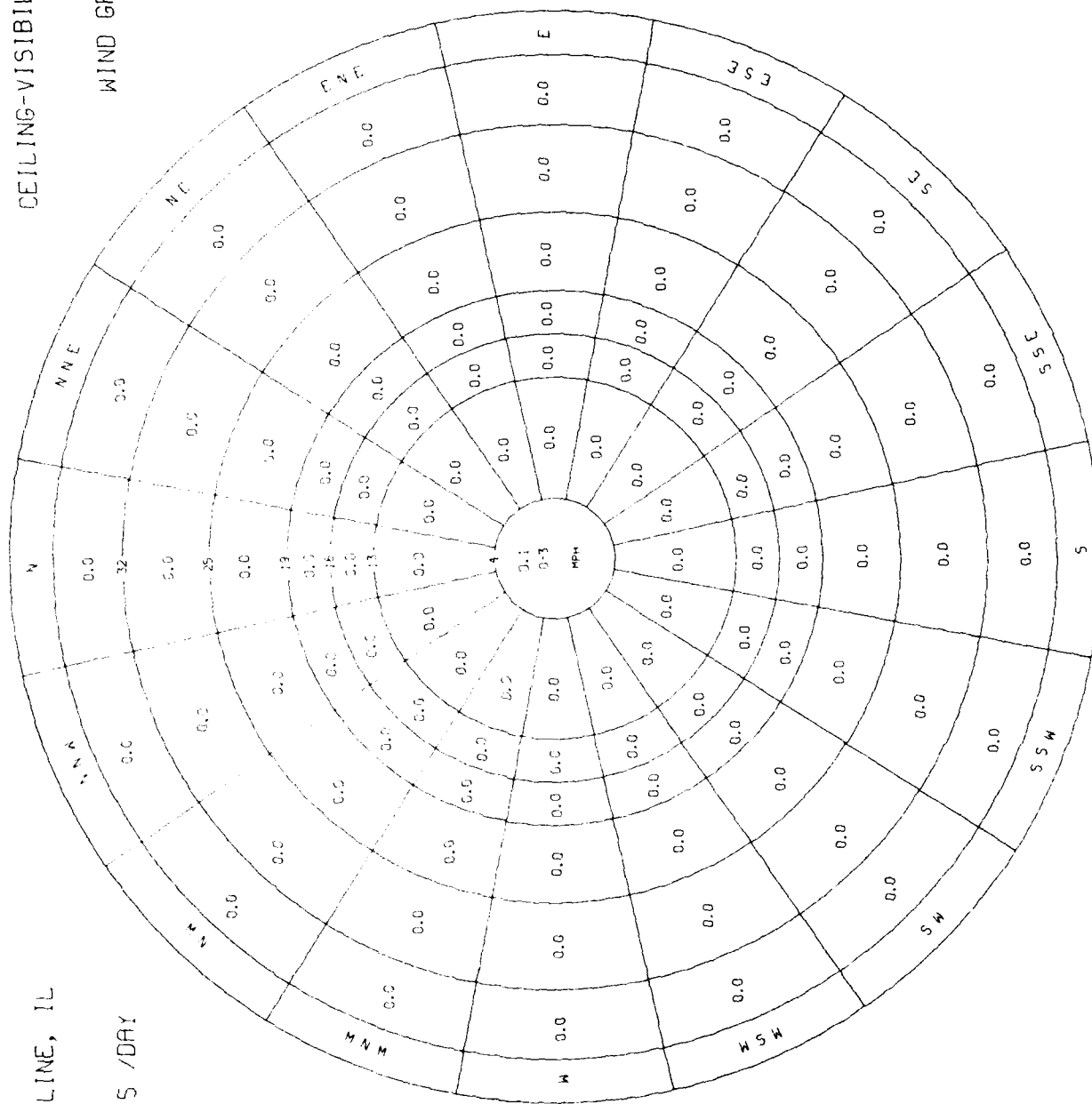
STATION NUMBER: 14923

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.9	.0	3.1	.0	.5	.0	.3	.0	.9	.0	.3	.0	.0	.0	.1	6.1	11.4
NNE	.0	.8	.0	2.3	.0	.9	.0	.2	.0	.5	.0	.0	.0	.0	.0	.1	4.7	10.2
NE	.0	.3	.1	4.4	.0	1.7	.0	.6	.0	.3	.0	.3	.0	.0	.0	.1	7.7	11.5
ENE	.0	.8	.1	9.1	.0	1.9	.0	1.1	.0	.8	.0	.0	.0	.0	.0	.2	13.6	10.2
E	.0	.8	.2	10.3	.0	1.2	.0	1.1	.0	.5	.0	.2	.0	.0	.0	.2	14.1	9.9
ESE	.0	.5	.1	3.7	.0	1.1	.0	.6	.0	.3	.0	.0	.0	.0	.0	.1	6.3	9.5
SE	.0	.6	.0	3.0	.0	.5	.0	.3	.0	.2	.0	.0	.0	.0	.0	.1	4.5	8.9
SSE	.0	.0	.0	3.0	.0	.9	.0	.8	.0	.2	.0	.0	.0	.0	.0	.1	4.8	11.2
S	.0	.3	.1	3.9	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.7
SSW	.0	.3	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.5
SW	.0	.6	.0	1.1	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	2.0	7.8
WSW	.0	.6	.1	3.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.1	7.1
W	.0	.3	.1	5.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.2	.0	.1	5.8	8.5
WNW	.0	.0	.0	2.5	.0	.3	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	3.1	10.4
NW	.0	.5	.0	1.6	.0	.2	.0	.3	.0	.2	.0	.5	.0	.0	.0	.0	3.1	12.1
NNW	.0	.0	.0	1.6	.0	.2	.0	.5	.0	.8	.0	.0	.0	.0	.0	.0	3.0	13.6
CALM	.2	10.8														.2	10.8	
TOTAL	.3	18.1	.9	58.9	.2	10.5	.1	6.3	.1	4.8	.0	1.2	.0	.2	.0	1.6	10.0	9.0

CEILING-VISIBILITY WIND GRAPH

MLI MOLINE, IL

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: MLI MOBILE, IL

CLASS 5 / DAY

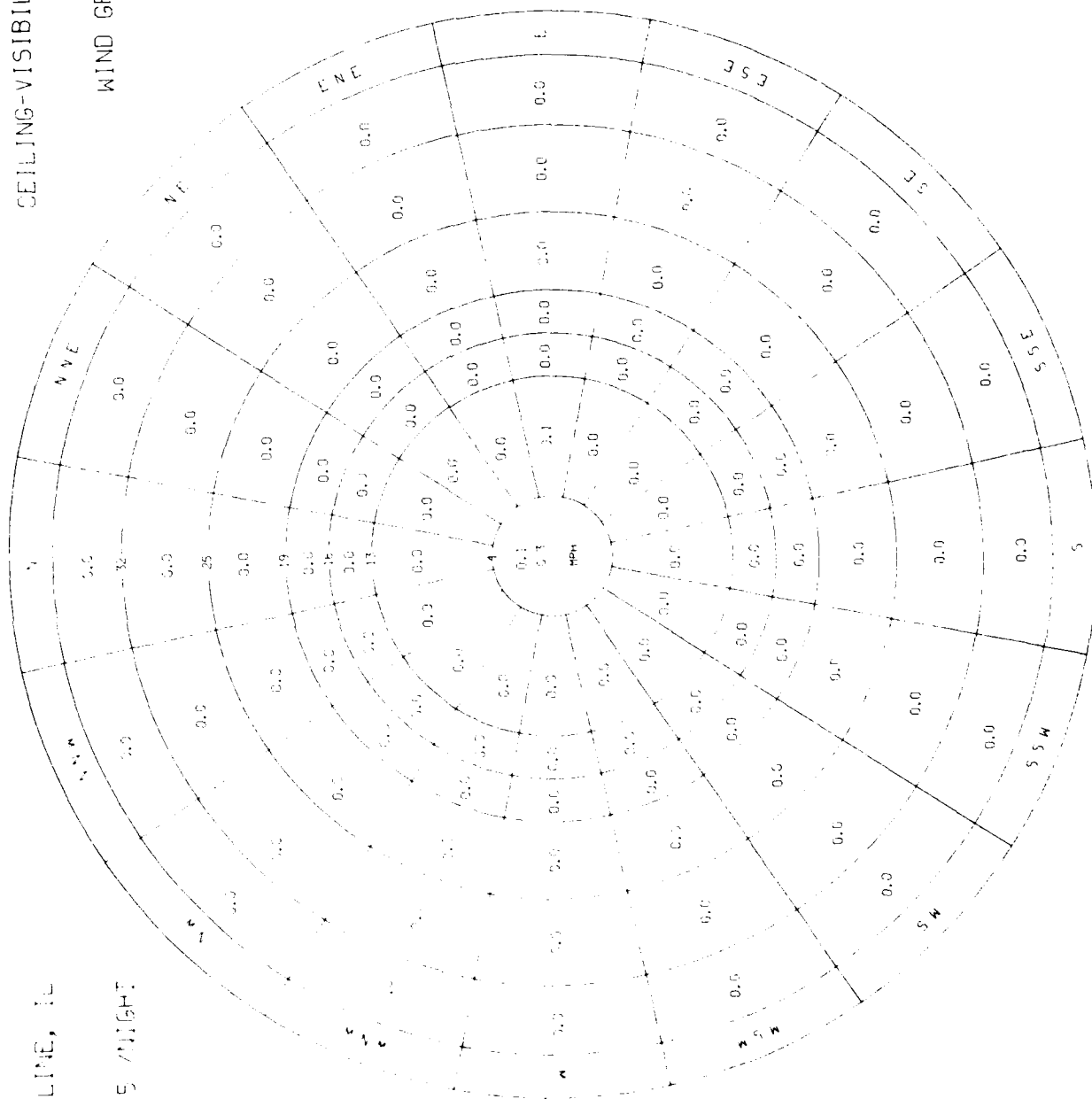
NO. OBS.: 125

STATION NUMBER: 14923

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	3.2	.0	4.0	.0	.8	.0	2.4	.0	.0	.0	.0	.0 10.4
N	.0	1.6	.0	4.0	.0	2.4	.0	.8	.0	.0	.0	.0	.0	.0	.0 8.8
ENE	.0	.0	.0	6.4	.0	2.4	.0	.8	.0	1.6	.0	.0	.0	.0	.0 11.2
E	.0	4.0	.0	16.8	.0	3.2	.0	.0	.0	.8	.0	.0	.0	.1	.1 24.8
ESE	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.2
SE	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
SSE	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.2
S	.0	.8	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0 2.4
SSW	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SW	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
WSW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
W	.0	.8	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.6
WNW	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
NW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0 2.4
NNW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
CALM	.0	15.2													.0 15.2
TOTAL	.1	26.4	.1	52.8	.0	12.0	.0	3.2	.0	5.6	.0	.0	.0	.0	.3 100
															7.7

CEILING-VISIBILITY

WIND GRAPH



MLI MOLINE, IL

CLASS 5 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: MLI MOLINE, IL

CLASS 5 / NIGHT

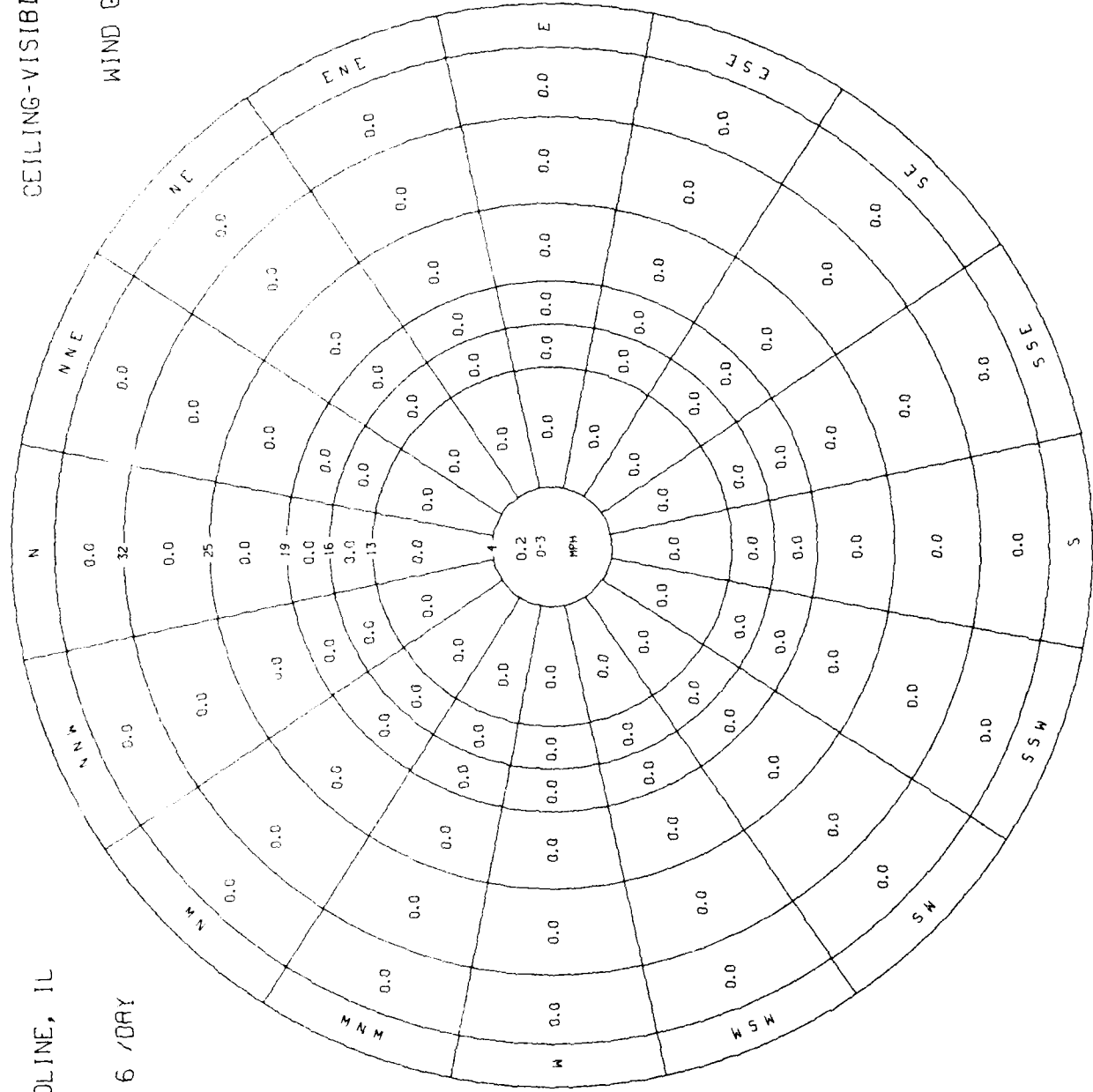
NO. OBS.: 174

STATION NUMBER: 14223

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	1.1	.0	.0	.0	.0	.0	1.1	.0	.6	.0	.0	.0	3.4	14.5
NNE	.0	.0	.0	1.1	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.7	9.3
NE	.0	1.1	.0	4.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	6.9
ENE	.0	.6	.0	8.0	.0	1.1	.0	1.1	.0	.6	.0	.0	.0	.0	.0	11.5	9.7
E	.0	.6	.1	13.8	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.0	.1	16.7	8.5
ESE	.0	1.1	.0	5.7	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	8.0	7.3
SE	.0	.6	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	7.6
SSE	.0	.6	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.0
S	.0	1.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	4.2
SSW	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	14.0
SW	.0	.6	.0	2.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.1
WSW	.0	1.1	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	4.0	10.0
W	.0	1.7	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.0
WNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.5
NW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.7	12.3
NNW	.0	.6	.0	.6	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	2.9	15.0
CALM	.1	23.0													.1	23.0	
TOTAL	.1	33.9	.2	51.7	.0	6.9	.0	2.9	.0	2.9	.0	1.7	.0	.0	.4	100	6.6

CEILING-VISIBILITY

WIND GRAPH



MLI MOLINE, IL

CLASS 6 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: MULWINE, IL

CLASS 6 / DAY

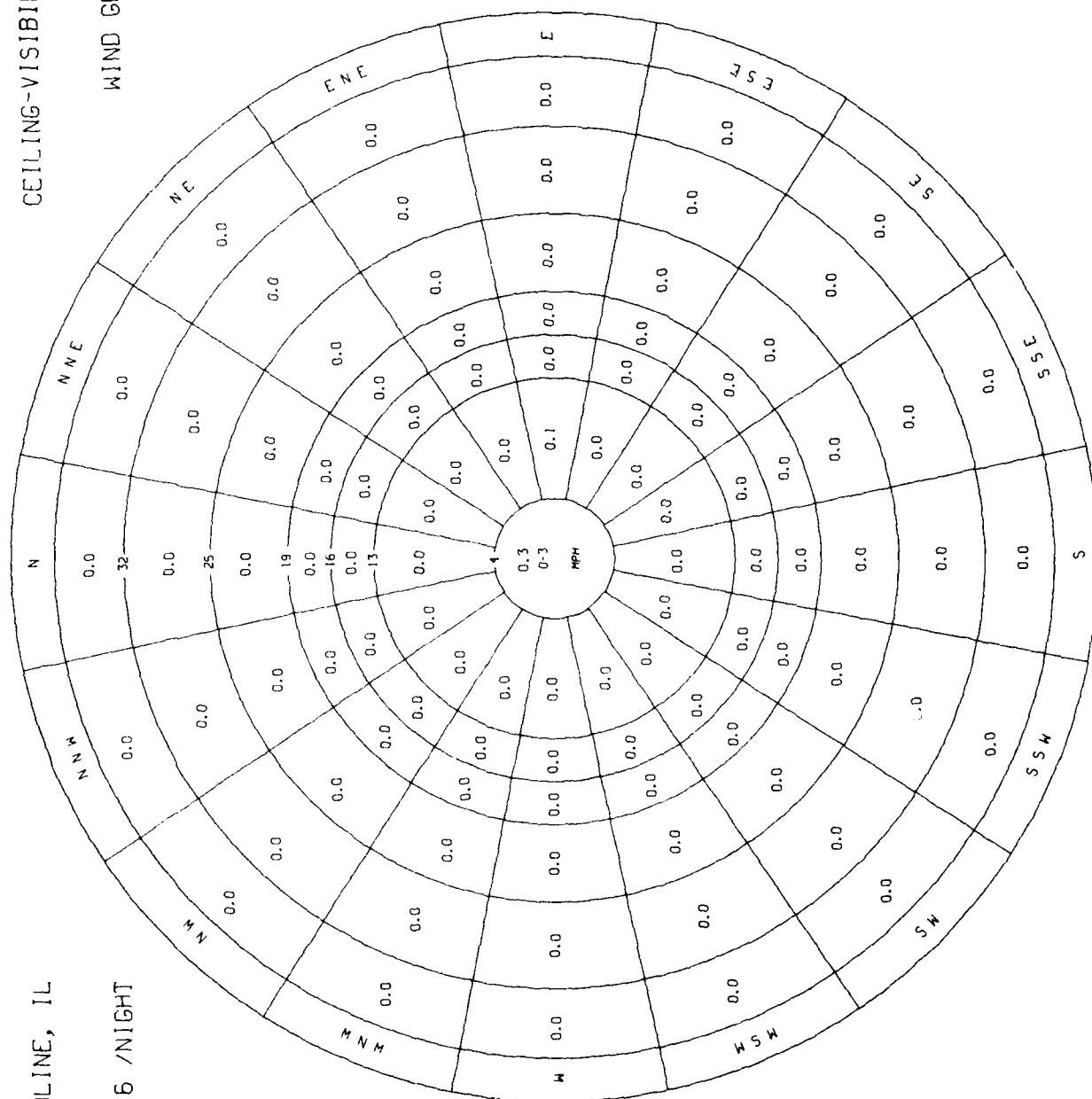
NO. OBS.: 160

STATION NUMBER: 14923

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.1
NNE	.0	.0	.0	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0 2.5
NNE	.0	.0	.0	3.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.7
ENE	.0	1.2	.0	6.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0 8.7
E	.0	3.1	.0	12.5	.0	1.2	.0	.6	.0	.0	.0	.6	.0	.0	.1 18.1
ESE	.0	1.9	.0	6.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.7
SE	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
SSE	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .6
S	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
SSW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
SW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
WSW	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
W	.0	.6	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.6
WNW	.0	1.2	.0	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0 3.7
NW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.1	34.4													.1 34.4
TOTAL	.2	47.5	.2	46.9	.0	2.5	.0	2.5	.0	.0	.0	.6	.0	.0	.3 100
															4.5

CEILING-VISIBILITY

WIND GRAPH



MLI MOLINE, IL

CLASS 6 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MO LINE. IL

PERIOD: 1949-1978

CLASS 6 / NIGHT

NO. OBS.: 254

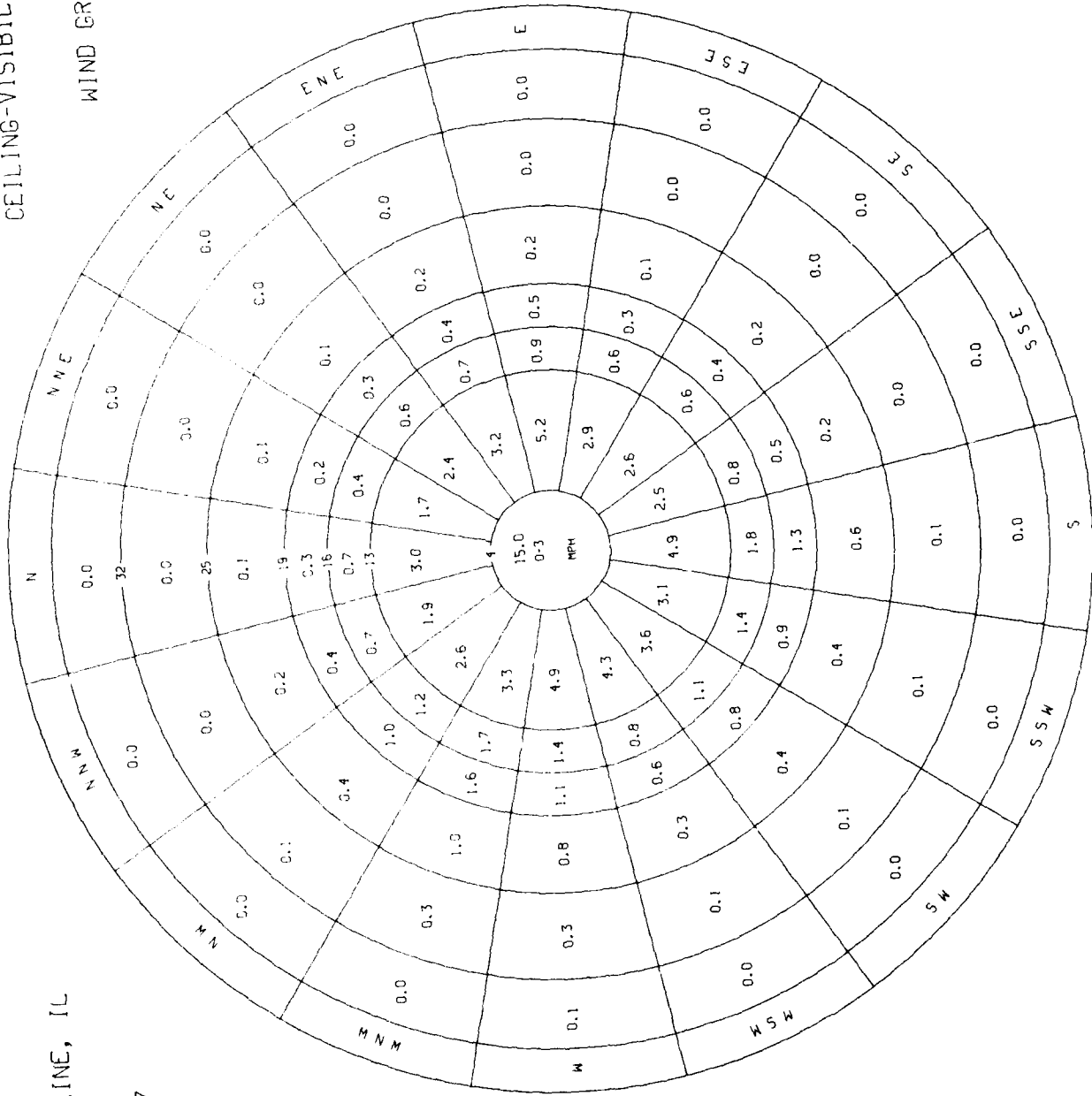
STATION NUMBER: 14923

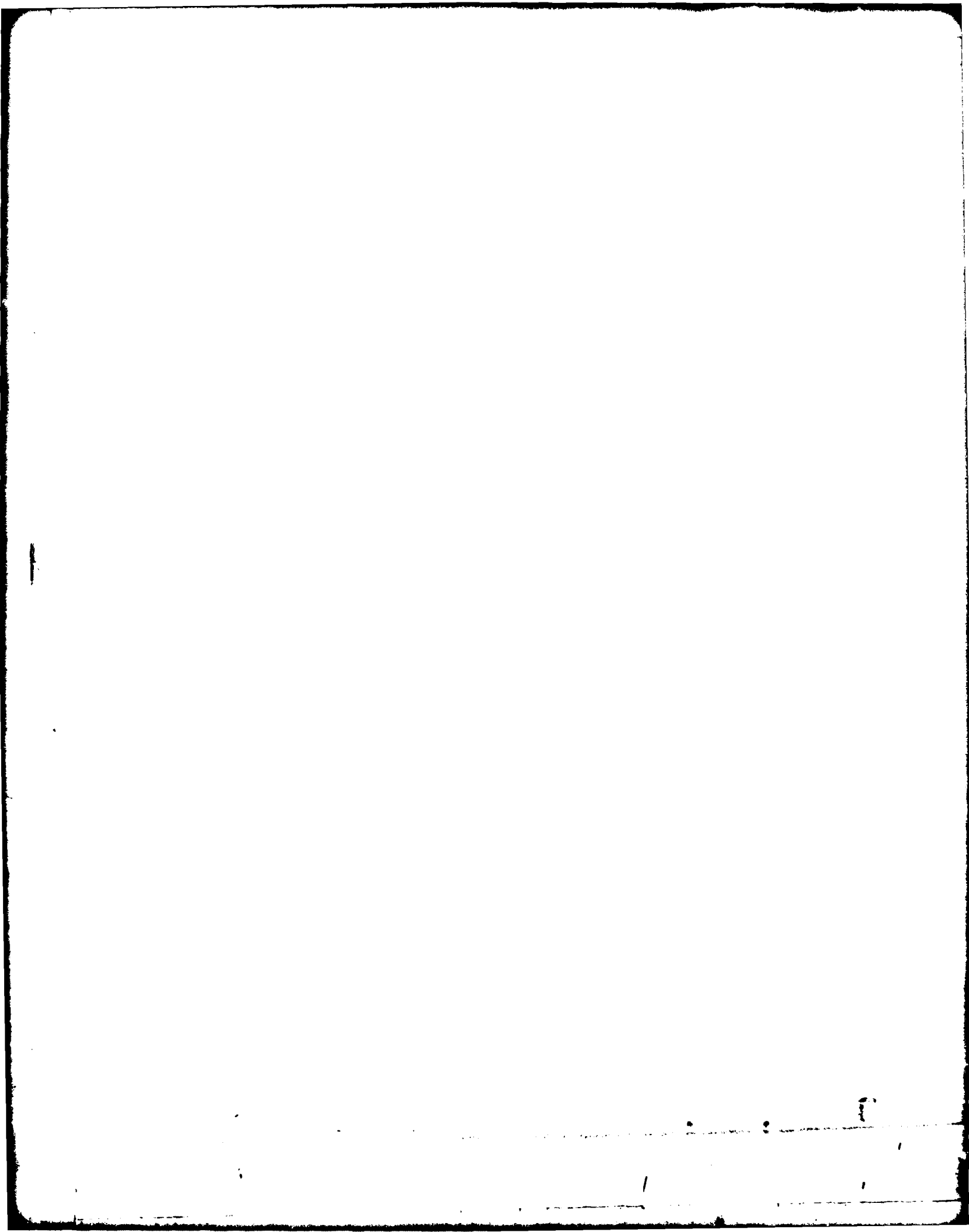
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 2.8
NNE	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
NE	.0	.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
ENE	.0	.4	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.5
E	.0	1.6	.1	10.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.1 12.6
ESE	.0	1.2	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.9
SE	.0	1.6	.0	2.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
SSE	.0	.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
S	.0	.8	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.8
SSW	.0	.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
SW	.0	1.2	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
WSW	.0	1.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
W	.0	2.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.5
WNW	.0	.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
NW	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
NNW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
CALM	.2	34.6												.2	.2 34.6
TOTAL	.3	49.2	.3	49.6	.0	.8	.0	.0	.0	.4	.0	.0	.0	.0	.6 100

WIND GRAPH

MLI MOLINE, IL

CLASS 7



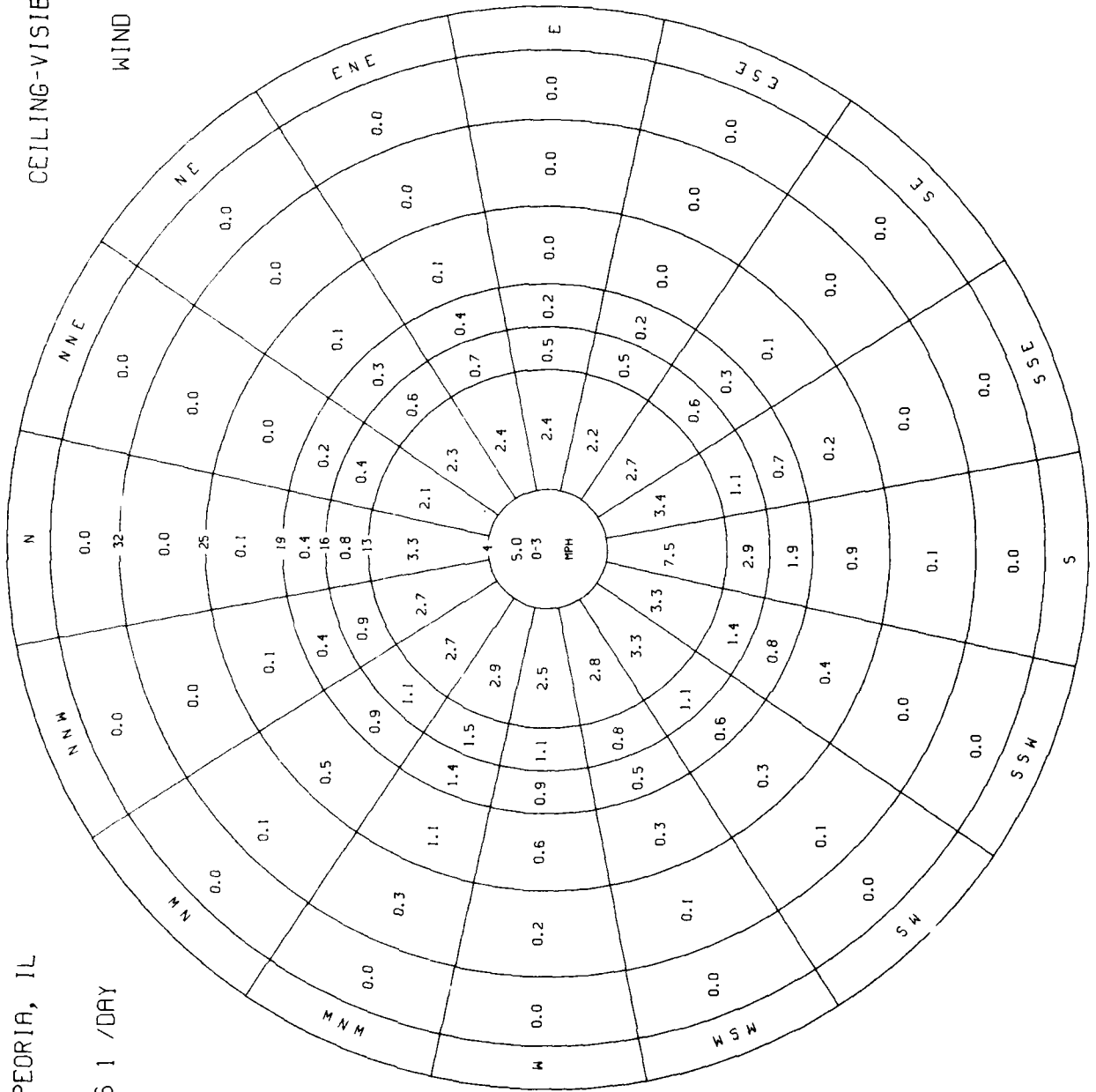


PIA PEORIA, IL

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: PIA PEORIA, IL

CLASS 1 / DAY

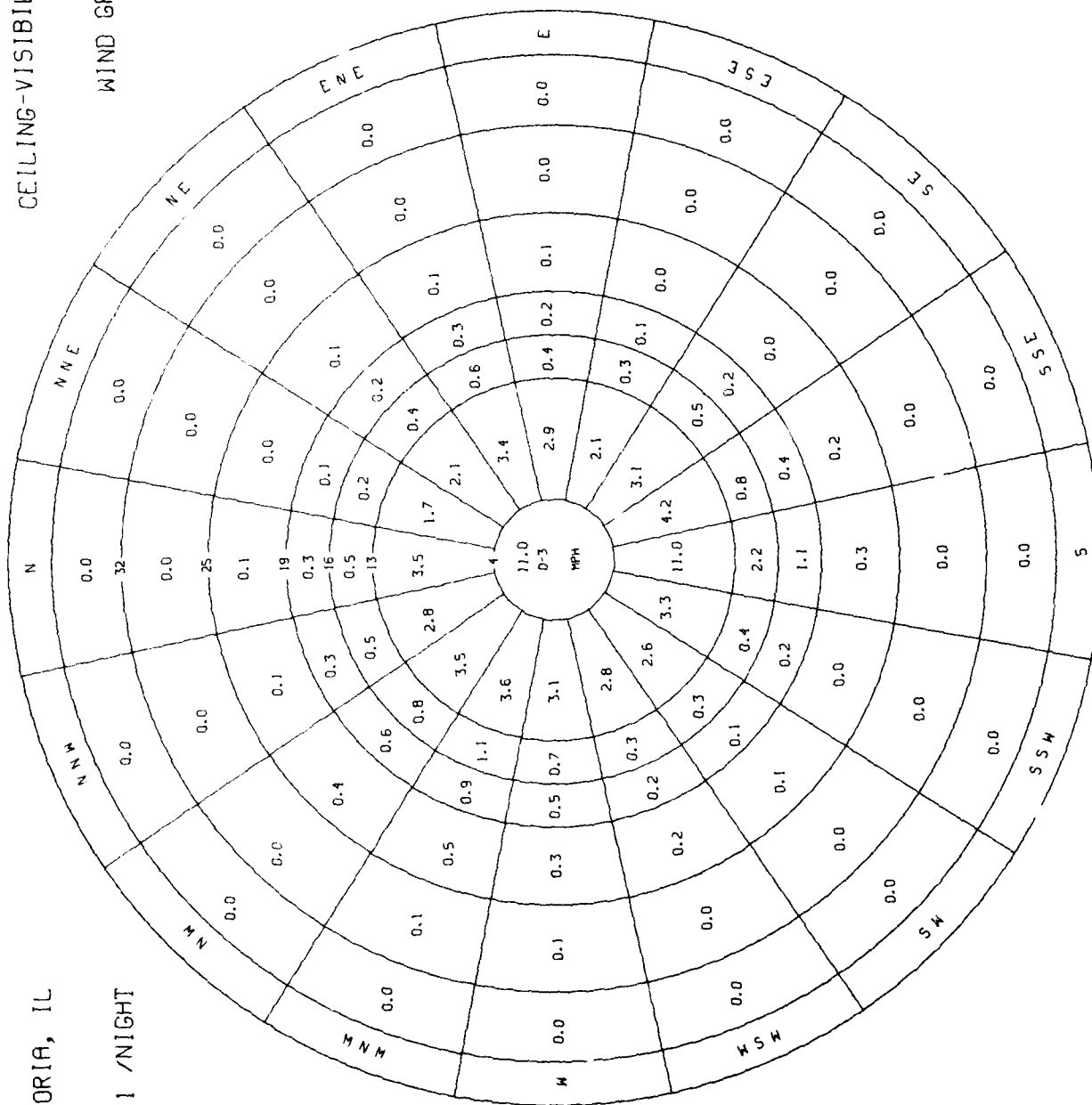
NO. OBS.: 34269

STATION NUMBER: 14842

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.3	3.3	3.9	.8	1.0	.4	.5	.1	.1	.0	.0	.0	.0	4.9	5.8	10.1
NNE	.2	.3	2.1	2.5	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	3.0	3.6	9.4
NE	.2	.2	2.3	2.7	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	3.4	4.0	10.0
ENE	.3	.3	2.4	2.8	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	3.7	4.4	10.1
E	.2	.2	2.4	2.8	.5	.5	.2	.2	.0	.1	.0	.0	.0	.0	3.2	3.8	9.4
ESE	.2	.3	2.2	2.6	.5	.5	.2	.3	.0	.0	.0	.0	.0	.0	3.2	3.7	9.4
SE	.2	.2	2.7	3.2	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.9	4.6	9.8
SSE	.2	.3	3.4	4.0	1.1	1.2	.7	.9	.2	.3	.0	.0	.0	.0	5.7	6.7	11.0
S	.4	.5	7.5	8.8	2.9	3.4	1.9	2.3	.9	1.0	.1	.1	.0	.0	13.8	16.2	11.7
SSW	.3	.3	3.3	3.9	1.4	1.6	.8	1.0	.4	.4	.0	.0	.0	.0	6.1	7.2	11.5
SW	.2	.3	3.3	3.8	1.1	1.3	.6	.7	.3	.3	.1	.1	.0	.0	5.6	6.5	11.3
WSW	.3	.3	2.8	3.3	.8	1.0	.5	.6	.3	.4	.1	.1	.0	.0	4.9	5.7	11.3
W	.2	.3	2.5	2.9	1.1	1.3	.9	1.1	.6	.7	.2	.2	.0	.0	5.6	6.6	12.8
WNW	.2	.2	2.9	3.4	1.5	1.7	1.4	1.7	1.1	1.3	.3	.3	.0	.0	7.4	8.6	13.8
NW	.2	.3	2.7	3.1	1.1	1.3	.9	1.0	.5	.5	.1	.1	.0	.0	5.5	6.4	12.1
NNW	.2	.3	2.7	3.1	.9	1.1	.4	.5	.1	.2	.0	.0	.0	.0	4.4	5.2	10.6
CALM	1.1	1.2													1.1	1.2	
TOTAL	5.0	5.8	48.5	56.7	16.0	18.7	10.3	12.1	4.8	5.6	.9	1.0	.1	.1	85.5	100	11.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

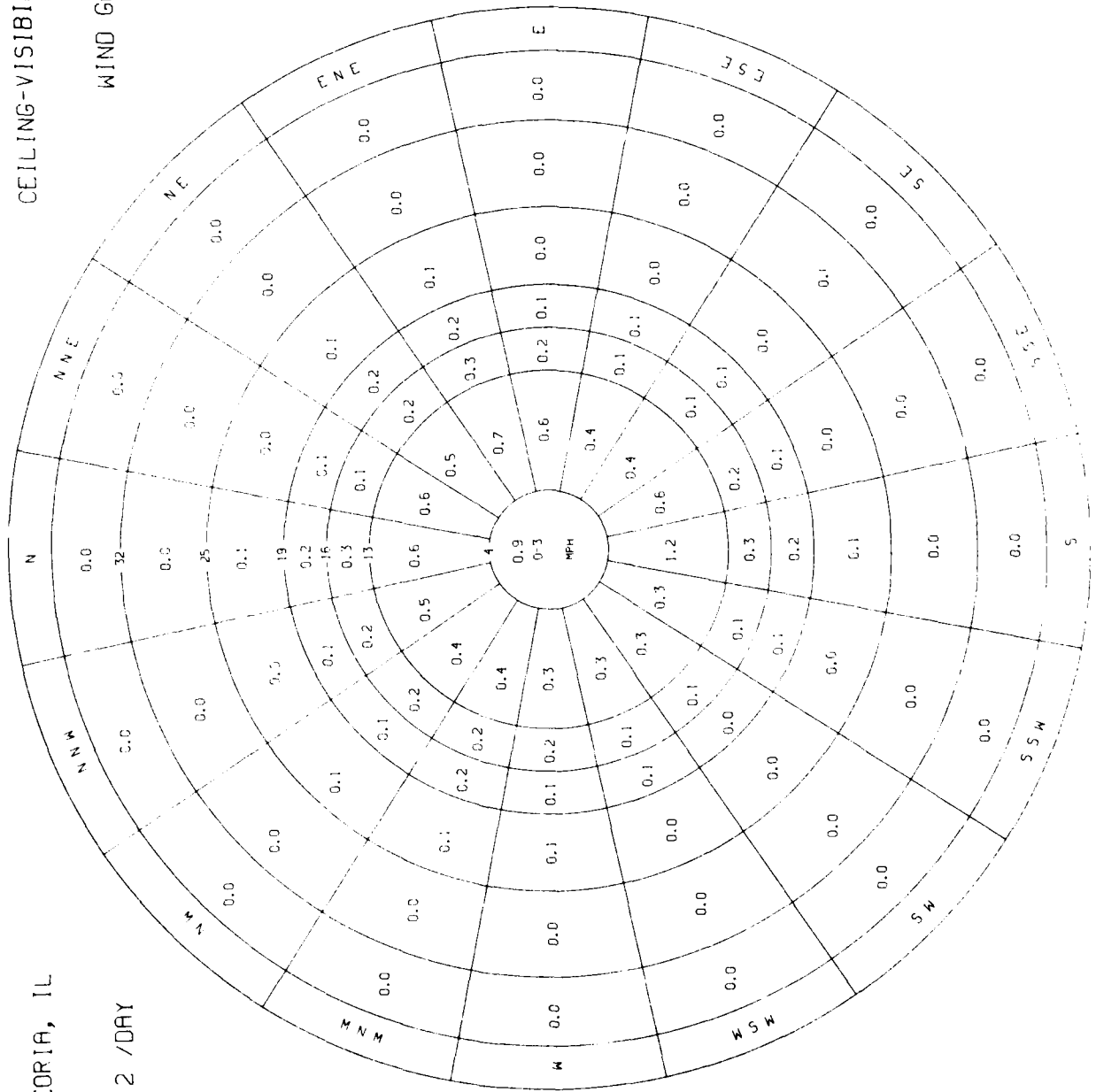
CLASS 1 / NIGHT

STATION NUMBER: 14842

NO. OBS.: 30030

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	3.5	4.1	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.8	5.6	8.6
NNE	.3	.3	1.7	2.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.2	2.6	8.0
NE	.3	.4	2.1	2.4	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.1	3.6	9.2
ENE	.4	.5	3.4	4.0	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	4.9	5.7	9.4
E	.3	.3	2.9	3.4	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.9	4.6	9.0
ESE	.4	.5	2.1	2.5	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.4	8.2
SE	.4	.5	3.1	3.6	.5	.6	.2	.3	.0	.1	.0	.0	.0	.0	4.2	5.0	8.8
SSE	.4	.5	4.2	5.0	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	6.1	7.1	9.4
S	1.0	1.1	11.0	12.9	2.2	2.6	1.1	1.2	.3	.3	.0	.0	.0	.0	15.5	18.2	9.5
SSW	.5	.6	3.3	3.9	.4	.5	.2	.2	.0	.1	.0	.0	.0	.0	4.4	5.2	8.2
SW	.5	.6	2.6	3.1	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	3.6	4.2	8.1
WSW	.6	.7	2.8	3.3	.3	.4	.2	.3	.2	.2	.0	.0	.0	.0	4.1	4.8	8.6
W	.6	.6	3.1	3.6	.7	.9	.5	.6	.3	.3	.1	.1	.0	.0	5.3	6.2	10.2
WNW	.5	.6	3.5	4.3	1.1	1.3	.9	1.1	.5	.6	.1	.2	.0	.0	6.8	8.0	11.3
NW	.5	.5	3.5	4.1	.8	.9	.6	.7	.4	.4	.0	.1	.0	.0	5.8	6.7	10.4
NNW	.4	.4	2.8	3.3	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	4.2	4.9	9.4
CALM	3.5	4.1													3.5	4.1	
TOTAL	11.0	12.9	55.7	65.4	10.0	11.8	5.8	6.8	2.3	2.7	.4	.5	.0	.1	85.3	100	9.0

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: PIA PEORIA, IL

CLASS 2 / DAY

NO. OBS.: 5798

STATION NUMBER: 14842

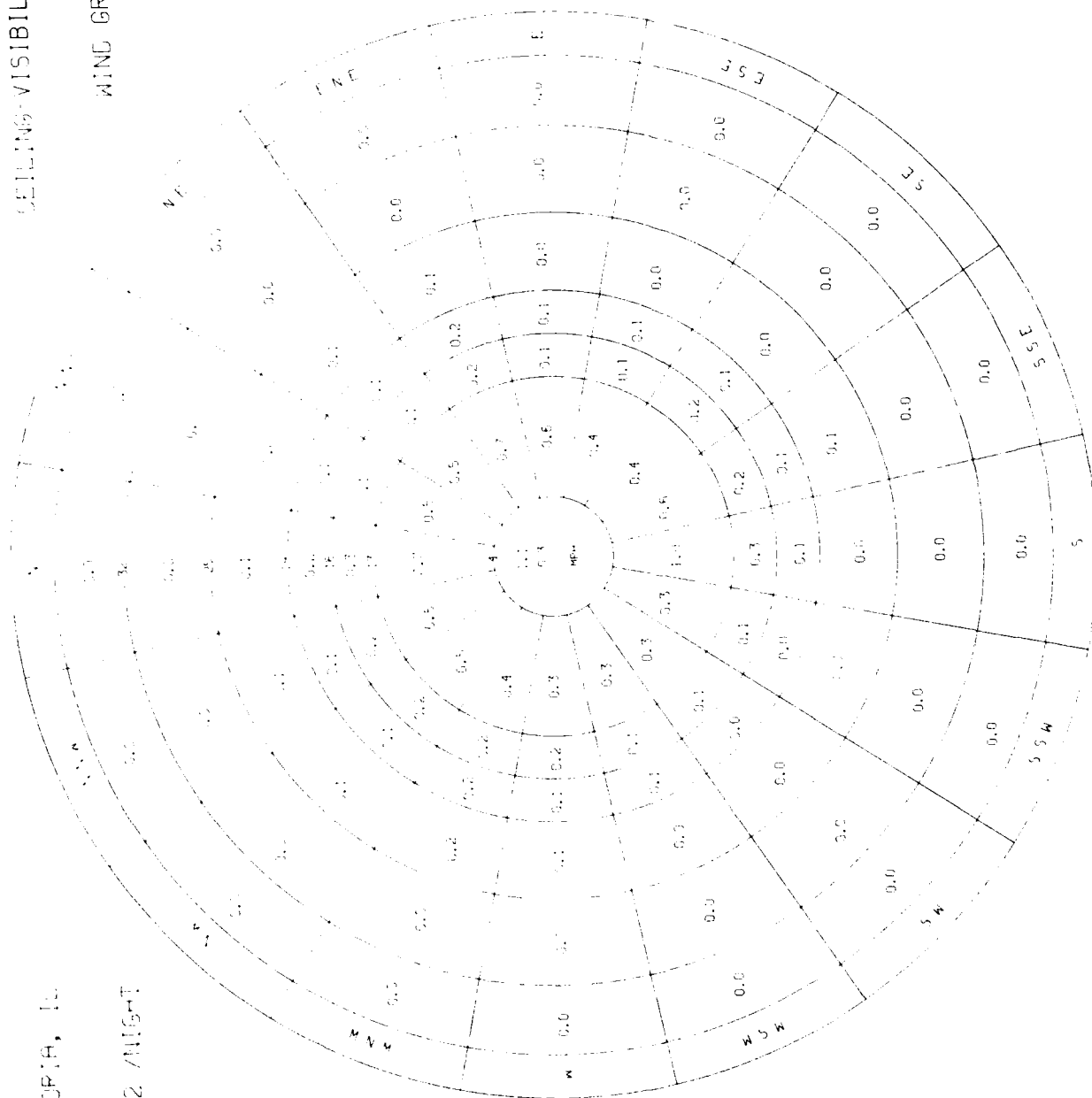
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.4	.6	4.3	.3	1.8	.2	1.1	.1	.5	.0	.1	.0	.0	1.2	8.2	11.6
NNE	.0	.1	.6	3.8	.1	1.0	.1	.5	.0	.3	.0	.1	.0	.0	.8	5.8	11.1
NE	.0	.2	.5	3.4	.2	1.5	.2	1.1	.1	.5	.0	.1	.0	.0	1.0	6.8	12.3
ENE	.1	.4	.7	5.0	.3	1.9	.2	1.1	.1	.4	.0	.0	.0	.0	1.3	8.7	11.2
E	.1	.4	.6	4.2	.2	1.1	.1	.4	.0	.2	.0	.0	.0	.0	.9	6.4	9.8
ESE	.0	.3	.4	2.5	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.1	10.3
SE	.0	.3	.4	3.1	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.7	4.6	10.4
SSE	.0	.2	.6	4.1	.2	1.2	.1	.9	.0	.3	.0	.1	.0	.0	1.0	6.8	10.8
S	.1	.8	1.2	8.5	.3	2.1	.2	1.4	.1	.5	.0	.1	.0	.0	1.9	13.3	10.4
SSW	.1	.4	.3	2.4	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.0	10.0
SW	.0	.3	.3	2.2	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.3	9.8
WSW	.0	.3	.3	2.1	.1	.6	.1	.5	.0	.2	.0	.0	.0	.0	.5	3.7	10.7
W	.0	.1	.3	1.8	.2	1.3	.1	.9	.1	.6	.0	.2	.0	.0	.7	5.1	13.8
WNW	.0	.2	.4	2.6	.2	1.5	.2	1.3	.1	.6	.0	.3	.0	.0	.9	6.5	13.6
NW	.0	.2	.4	2.7	.2	1.2	.1	.8	.1	.4	.0	.1	.0	.0	.8	5.3	12.4
NNW	.0	.2	.5	3.3	.2	1.1	.1	.9	.0	.3	.0	.0	.0	.0	.8	5.7	11.6
CALM	.2	1.6													.2	1.6	
TOTAL	.9	6.3	8.1	56.2	2.7	18.6	1.8	12.4	.8	5.3	.2	1.2	.0	.1	14.5	100	11.1

CEILING-VISIBILITY

WIND GRAPH

PIA PEORIA, IL

CLASS 2 / AUG-T



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F/8 4/2

WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME I--ETC(U)

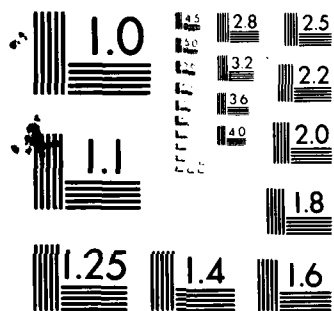
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 2 / NIGHT

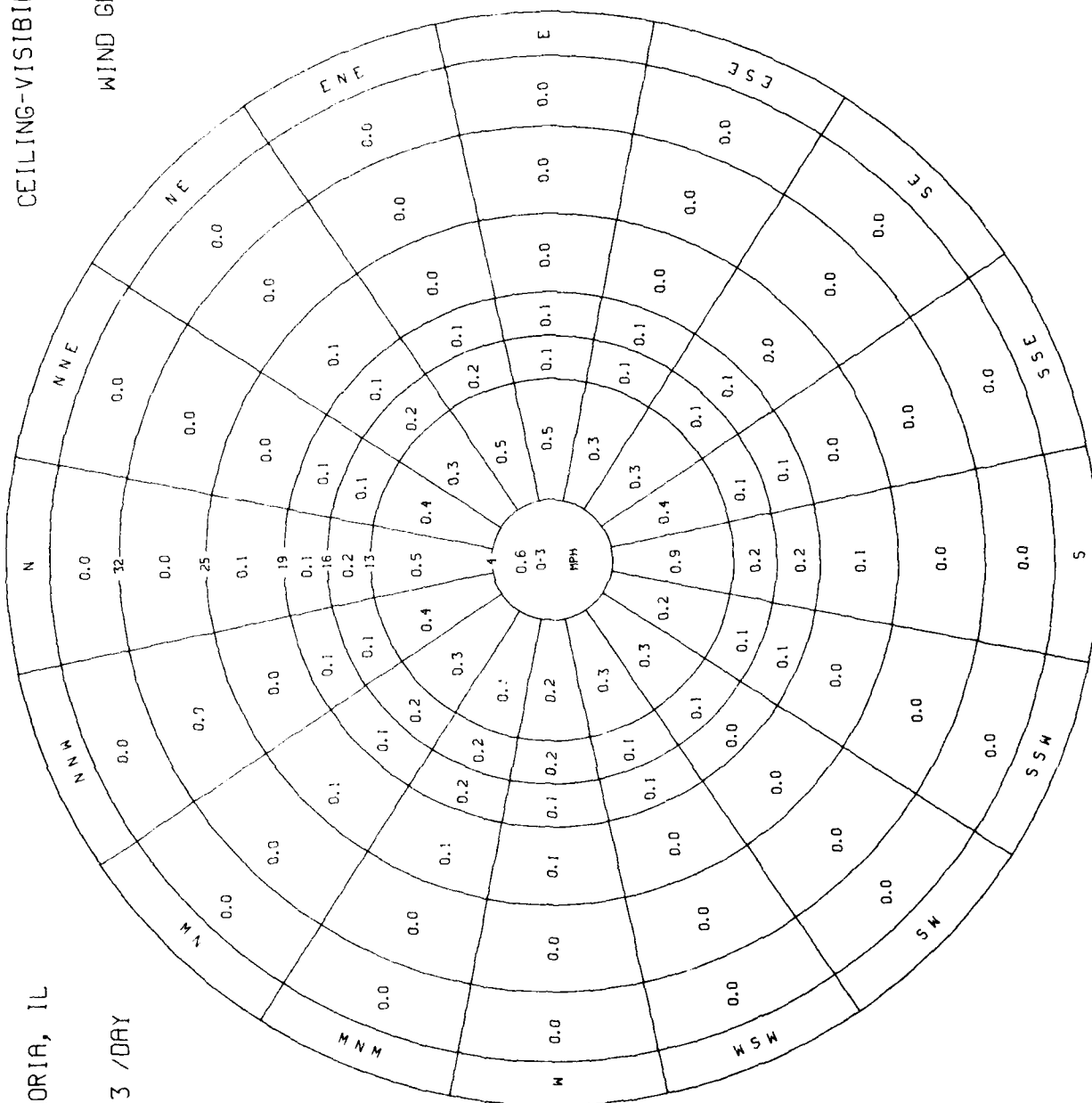
STATION NUMBER: 14842

NO. OBS.: 5180

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.7	4.7	.3	2.2	.2	1.5	.1	.7	.0	.1	.0	.0	1.4 9.5
NNE	.0	.2	.5	3.2	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.7 5.1
NNE	.0	.3	.5	3.5	.1	1.0	.1	.9	.1	.3	.0	.1	.0	.0	.9 6.1
ENE	.1	.5	.7	4.9	.2	1.6	.2	1.3	.1	.6	.0	.1	.0	.0	1.3 9.0
E	.1	.4	.6	3.9	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.9 6.1
ESE	.0	.3	.4	2.5	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.6 4.0
SE	.0	.3	.4	2.8	.2	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.7 4.8
SSE	.0	.3	.6	3.8	.2	1.6	.1	.8	.1	.4	.0	.0	.0	.0	1.0 6.9
S	.1	.5	1.0	6.9	.3	2.1	.1	.8	.0	.3	.0	.1	.0	.0	1.6 10.8
SSW	.0	.3	.3	2.4	.1	.7	.0	.3	.0	.1	.0	.1	.0	.0	.6 3.8
SW	.1	.4	.3	2.0	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5 3.1
WSW	.1	.3	.3	2.2	.1	.6	.1	.5	.0	.2	.0	.1	.0	.0	.6 3.9
W	.0	.2	.3	1.9	.2	1.2	.1	1.0	.1	.5	.0	.2	.0	.0	.7 5.0
WNW	.0	.3	.4	2.8	.2	1.5	.2	1.1	.2	1.1	.0	.3	.0	.1	1.0 7.0
NW	.0	.3	.5	3.1	.2	1.3	.1	1.0	.1	.4	.0	.1	.0	.0	.9 6.1
NNW	.0	.3	.5	3.6	.2	1.2	.1	1.0	.1	.4	.0	.0	.0	.0	1.0 6.5
CALM	.3	2.1													.3 2.1
TOTAL	1.1	7.4	8.0	54.2	2.8	18.9	1.9	12.6	.8	5.7	.2	1.1	.0	.1	14.7 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 3 / DAY

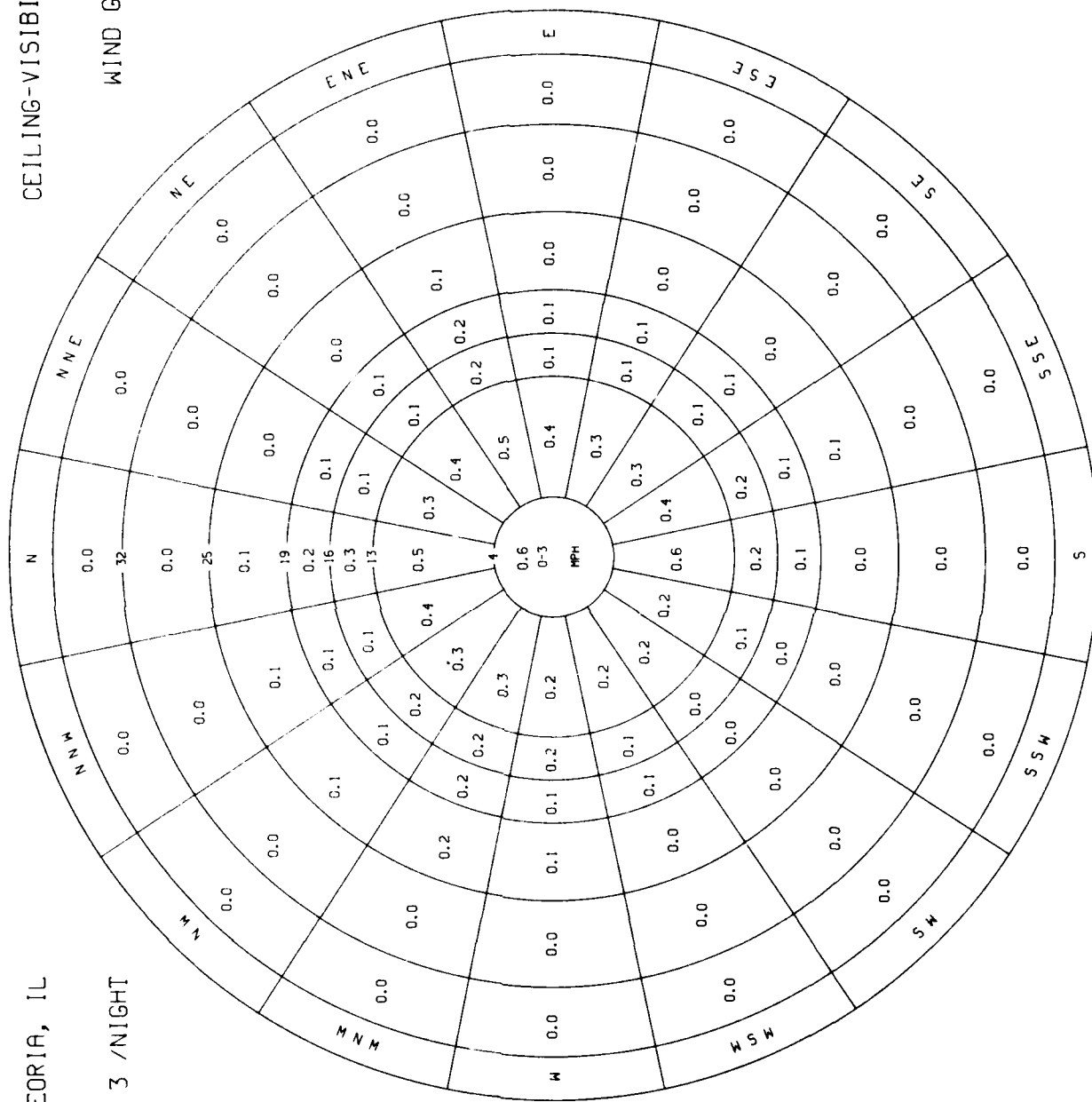
STATION NUMBER: 14842

NO. OBS.: 4700

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.5	4.4	.2	1.9	.1	1.3	.1	.5	.0	.1	.0	.0	1.0	8.4	12.0
NNE	.0	.1	.4	3.7	.1	1.1	.1	.4	.0	.4	.0	.1	.0	.0	.7	5.8	11.2
NE	.0	.2	.3	3.0	.2	1.6	.1	1.2	.1	.5	.0	.1	.0	.0	.8	6.5	12.7
ENE	.0	.3	.5	4.7	.2	2.0	.1	1.2	.0	.4	.0	.0	.0	.0	1.0	8.6	11.6
E	.0	.4	.5	4.0	.1	1.3	.1	.4	.0	.1	.0	.0	.0	.0	.7	6.3	10.1
ESE	.0	.2	.3	2.6	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.5	4.1	10.5
SE	.0	.2	.3	2.8	.1	.7	.1	.6	.0	.1	.0	.0	.0	.0	.5	4.4	10.7
SSE	.0	.3	.4	3.6	.1	1.3	.1	.9	.0	.4	.0	.1	.0	.0	.8	6.4	11.3
S	.1	.6	.9	7.6	.2	1.9	.2	1.5	.1	.5	.0	.1	.0	.0	1.4	12.2	10.9
SSW	.0	.3	.2	2.1	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.4	3.7	10.6
SW	.0	.3	.3	2.2	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.4	10.3
WSW	.0	.3	.3	2.2	.1	.6	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.0	11.2
W	.0	.1	.2	1.9	.2	1.6	.1	1.1	.1	.7	.0	.2	.0	.0	.7	5.7	14.1
WNW	.0	.2	.3	2.8	.2	1.8	.2	1.5	.1	.7	.0	.4	.0	.0	.9	7.4	13.9
NW	.0	.2	.3	2.7	.2	1.3	.1	.9	.1	.5	.0	.1	.0	.0	.7	5.7	12.6
NNW	.0	.1	.4	3.4	.1	1.3	.1	1.0	.0	.3	.0	.0	.0	.0	.7	6.0	11.8
CALM	.1	1.3													.1	1.3	
TOTAL	.6	5.2	6.3	53.6	2.4	20.1	1.6	13.8	.7	5.9	.2	1.3	.0	.1	11.7	100	11.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 3 / NIGHT

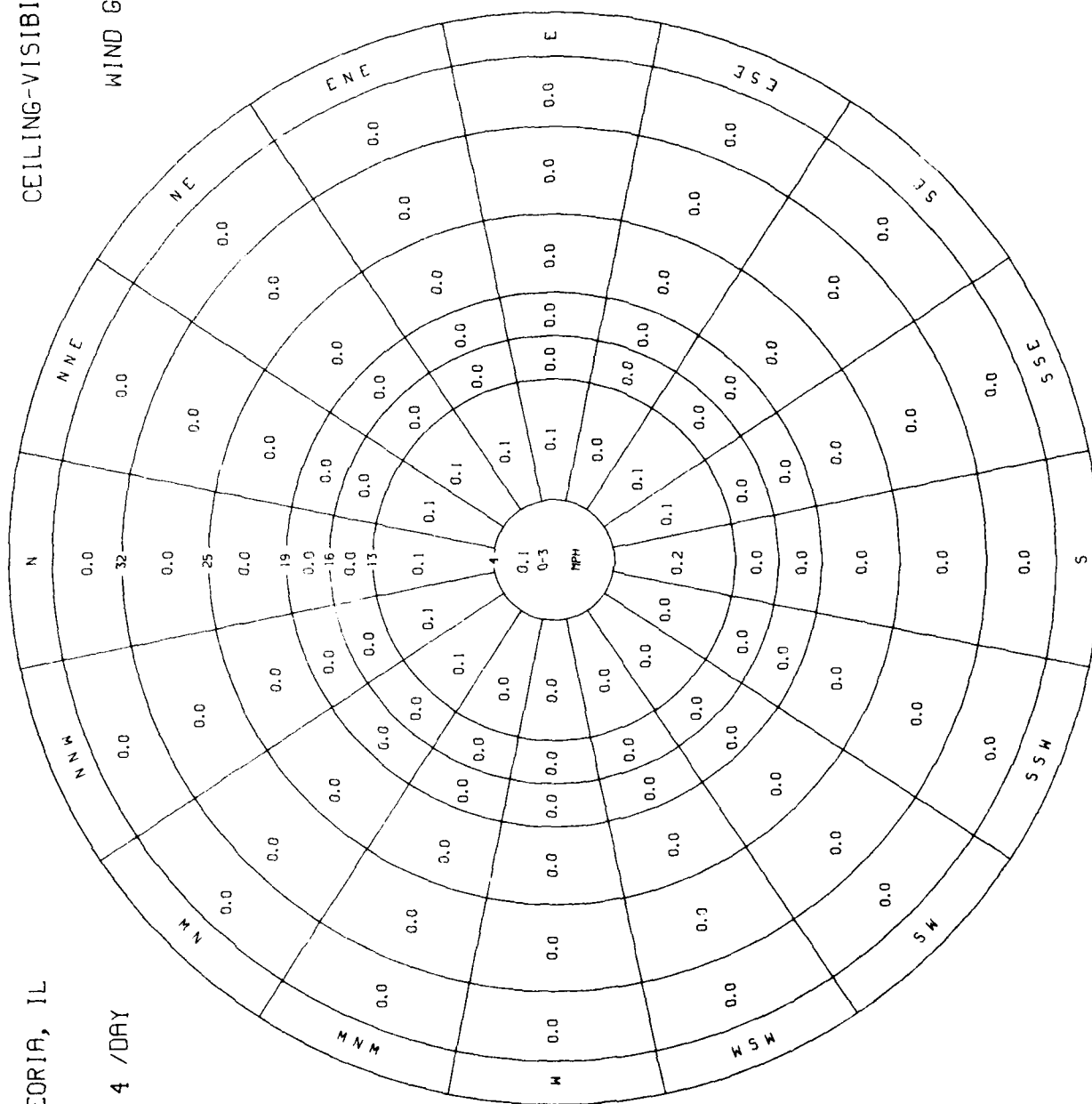
STATION NUMBER: 14842

NO. OBS.: 3877

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.5	4.7	.3	2.6	.2	1.8	.1	.9	.0	.1	.0	.0	1.1 10.4
NNE	.0	.1	.3	3.2	.1	1.0	.1	.6	.0	.2	.0	.1	.0	.0	.6 5.1
NE	.0	.2	.4	3.5	.1	1.1	.1	1.1	.0	.4	.0	.1	.0	.0	.7 6.4
ENE	.0	.3	.5	4.8	.2	1.5	.2	1.4	.1	.7	.0	.1	.0	.0	1.0 8.8
E	.0	.4	.4	3.4	.1	1.1	.1	.6	.0	.2	.0	.0	.0	.0	.6 5.8
ESE	.0	.2	.3	2.5	.1	.8	.1	.6	.0	.1	.0	.0	.0	.0	.5 4.2
SE	.0	.4	.3	2.3	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.5 4.4
SSE	.0	.3	.4	3.3	.2	1.4	.1	.8	.1	.5	.0	.0	.0	.0	.7 6.3
S	.0	.4	.6	5.3	.2	2.0	.1	.9	.0	.3	.0	.1	.0	.0	1.0 9.0
SSW	.0	.3	.2	2.1	.1	.7	.0	.3	.0	.1	.0	.1	.0	.0	.4 3.5
SW	.0	.4	.2	1.9	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.3 3.0
WSW	.0	.3	.2	2.2	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.5 4.3
W	.0	.2	.2	2.1	.2	1.4	.1	1.3	.1	.7	.0	.1	.0	.0	.6 5.9
WNW	.0	.2	.3	2.9	.2	1.9	.2	1.4	.2	1.4	.0	.3	.0	.1	.9 8.2
NW	.0	.1	.3	3.1	.2	1.6	.1	1.2	.1	.5	.0	.1	.0	.0	.7 6.7
NNW	.0	.1	.4	3.6	.1	1.3	.1	1.2	.1	.6	.0	.1	.0	.0	.8 6.8
CALM	.1	1.3													.1 1.3
TOTAL	.6	5.5	5.6	50.8	2.3	20.6	1.6	14.8	.8	7.0	.1	1.3	.0	.1	11.0 100
															11.7

PIA PEORIA, IL

CLASS 4 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 4 / DAY

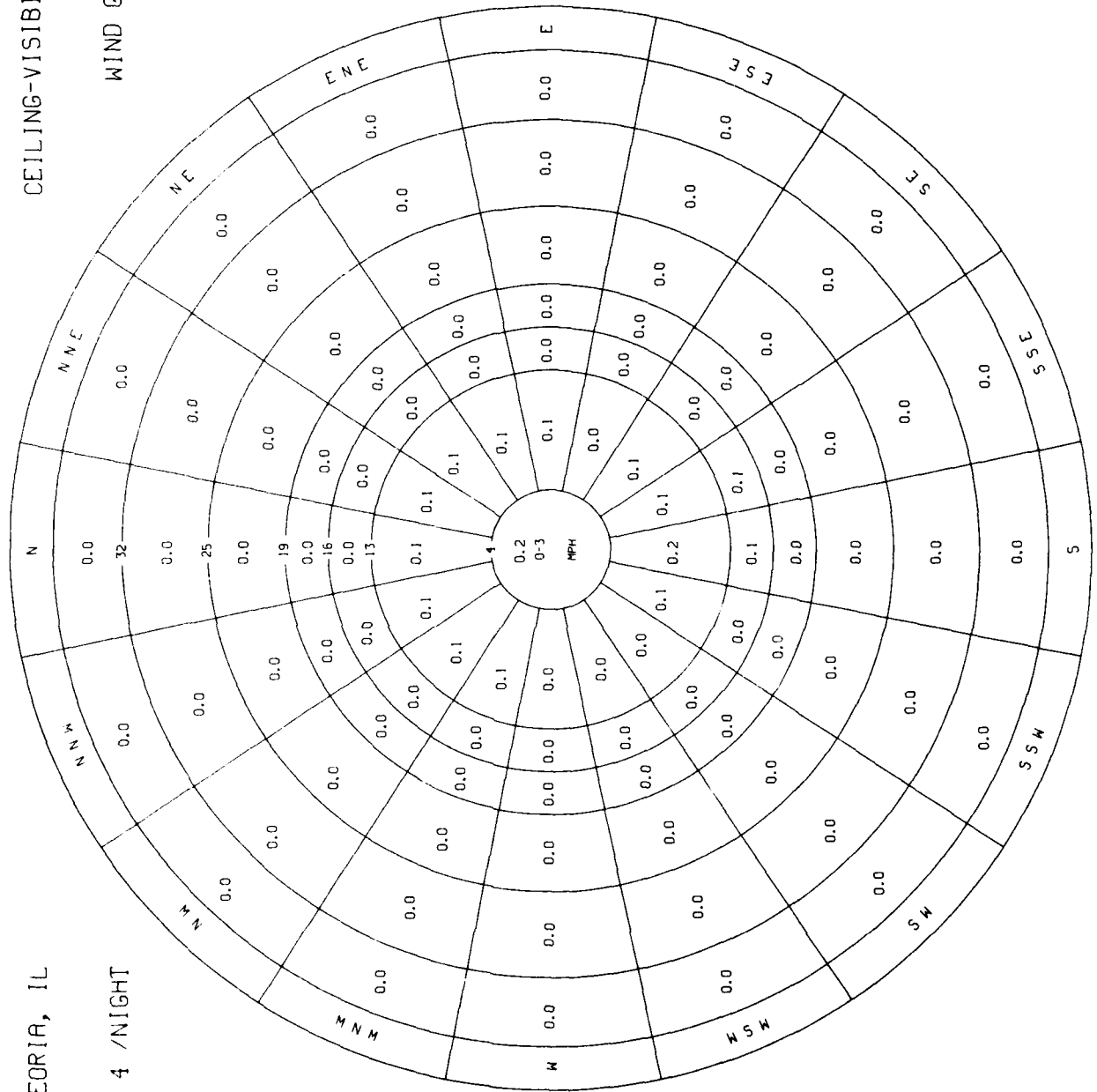
STATION NUMBER: 14842

NO. OBS.: 725

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.0	.1	4.6	.0	1.8	.0	.6	.0	.8	.0	.0	.0	.0	.2 8.7
NNE	.0	.0	.1	4.6	.0	1.1	.0	.8	.0	.1	.0	.0	.0	.0	.1 6.6
NE	.0	.3	.1	5.7	.0	1.2	.0	.7	.0	.8	.0	.3	.0	.0	.2 9.0
ENE	.0	.4	.1	6.1	.0	1.4	.0	1.0	.0	.4	.0	.0	.0	.0	.2 9.2
E	.0	.7	.1	4.8	.0	.7	.0	.7	.0	.3	.0	.0	.0	.0	.1 7.2
ESE	.0	.4	.0	2.5	.0	1.1	.0	.3	.0	.1	.0	.0	.0	.0	.1 4.4
SE	.0	.3	.1	2.9	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.1 4.3
SSE	.0	.1	.1	5.0	.0	1.0	.0	1.1	.0	.1	.0	.0	.0	.0	.1 7.3
S	.0	.8	.2	11.0	.0	2.8	.0	1.2	.0	.3	.0	.0	.0	.0	.3 16.1
SSW	.0	.4	.0	2.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.1	.1 4.0
SW	.0	.3	.0	2.5	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1 3.0
WSW	.0	.3	.0	2.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0 2.6
W	.0	.1	.0	1.9	.0	.6	.0	.1	.0	.0	.0	.3	.0	.0	.1 3.0
WNW	.0	.0	.0	1.8	.0	.6	.0	.6	.0	.1	.0	.0	.0	.0	.1 3.0
NW	.0	.1	.1	3.2	.0	.1	.0	.3	.0	.4	.0	.0	.0	.1	.1 4.3
NNW	.0	.3	.1	3.4	.0	.4	.0	.8	.0	.3	.0	.0	.0	.0	.1 5.2
CALM	.0	1.9													.0 1.9
TOTAL	.1	7.4	1.2	64.6	.3	14.6	.2	8.4	.1	4.0	.0	.7	.0	.3	1.8 10.1

PIA PEORIA, IL

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: PIA PEORIA, IL

CLASS 4 / NIGHT

NO. OBS.: 753

STATION NUMBER: 14842

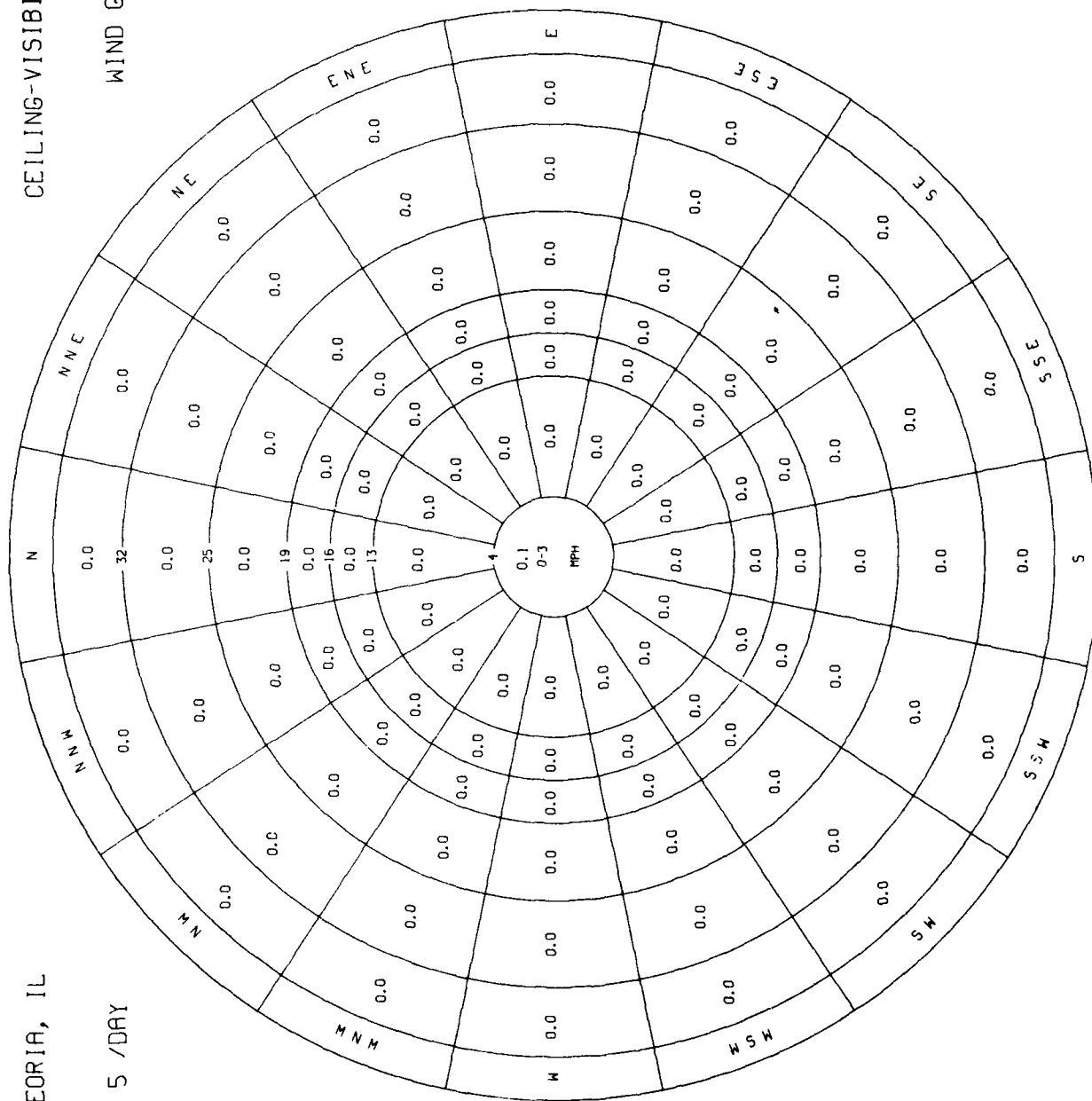
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.1	.1	6.0	.0	1.3	.0	.8	.0	.3	.0	.1	.0	.1	.2	8.8	11.2
NNE	.0	.1	.1	3.2	.0	.8	.0	.9	.0	.4	.0	.0	.0	.0	.1	5.4	11.9
NE	.0	.3	.1	4.4	.0	.8	.0	1.1	.0	.5	.0	.0	.0	.0	.2	7.0	11.1
ENE	.0	.3	.1	4.9	.0	2.3	.0	1.9	.0	.3	.0	.0	.0	.0	.2	9.6	11.9
E	.0	.3	.1	5.6	.0	1.2	.0	.5	.0	.1	.0	.0	.0	.0	.2	7.7	9.9
ESE	.0	.8	.0	1.9	.0	.7	.0	.0	.0	.1	.0	.0	.0	.0	.1	3.5	8.5
SE	.0	.4	.1	3.5	.0	1.3	.0	.5	.0	.0	.0	.0	.0	.0	.1	5.7	10.2
SSE	.0	.0	.1	5.0	.1	2.4	.0	1.1	.0	.3	.0	.0	.0	.0	.2	8.8	11.4
S	.0	.7	.2	9.2	.1	2.8	.0	.7	.0	.3	.0	.0	.0	.0	.3	13.5	10.2
SSW	.0	.4	.1	2.8	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.1	4.1	9.3
SW	.0	.3	.0	1.7	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.3	9.3
WSW	.0	.4	.0	1.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	7.5
W	.0	.3	.0	1.2	.0	.5	.0	.3	.0	.0	.0	.5	.0	.1	.1	2.9	14.5
WNW	.0	.4	.1	2.5	.0	.5	.0	.4	.0	.1	.0	.0	.0	.0	.1	4.0	9.5
NW	.0	.4	.1	3.5	.0	.9	.0	.4	.0	.1	.0	.0	.0	.0	.1	5.3	10.0
NNW	.0	.5	.1	4.4	.0	1.1	.0	.8	.0	.1	.0	.0	.0	.0	.1	6.9	9.9
CALM	.1	2.4													.1	2.4	
TOTAL	.2	8.0	1.3	61.2	.4	17.5	.2	9.6	.1	2.8	.0	.7	.0	.3	2.1	100	10.3

CEILING-VISIBILITY

WIND GRAPH

PIA PEORIA, IL

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 5 / DAY

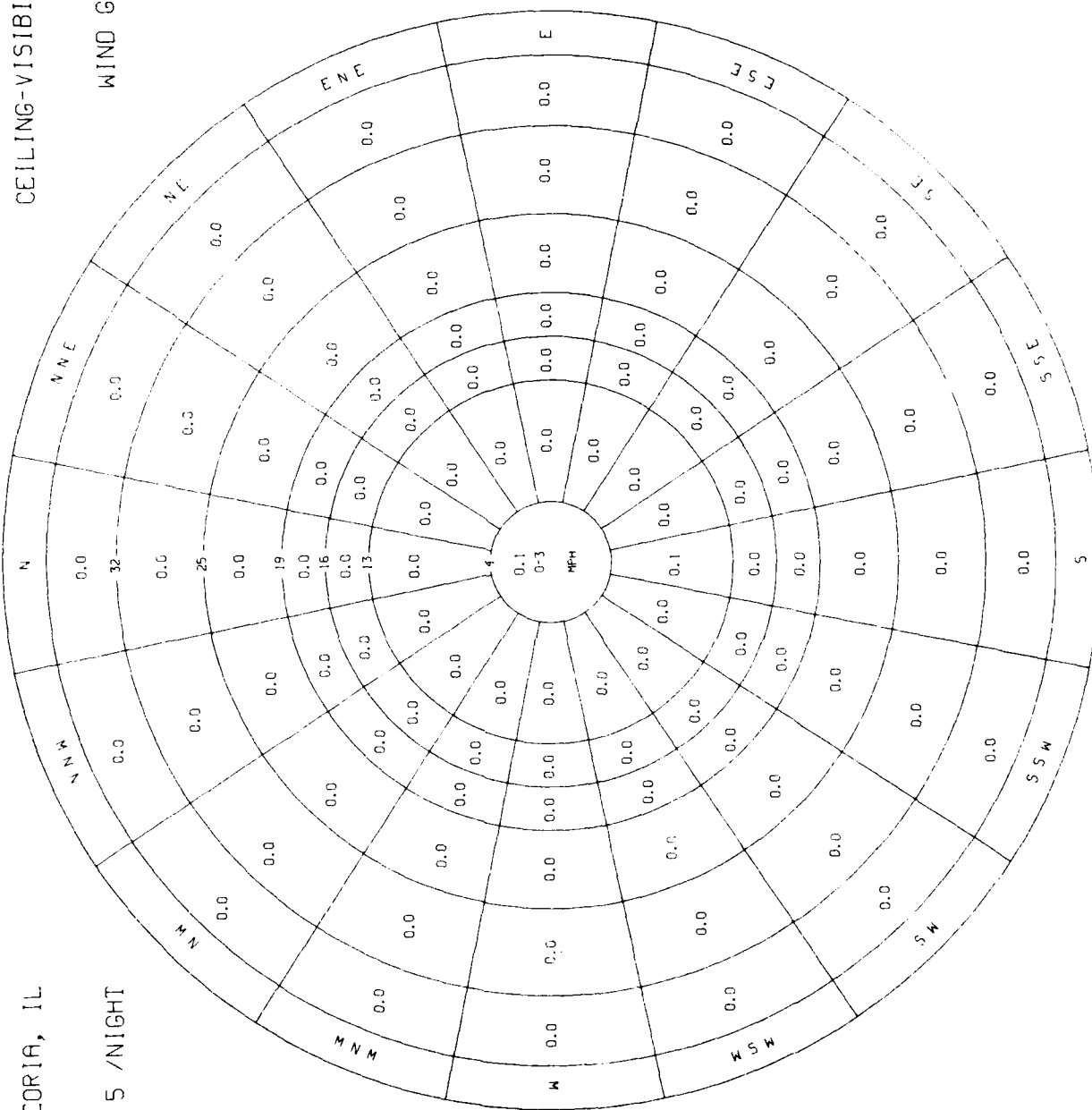
STATION NUMBER: 14842

NO. OBS.: 172

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	1.2	.0	3.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	8.1
NNE	.0	.6	.0	4.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	7.0	10.3
NE	.0	.6	.0	5.2	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	7.6	11.2
ENE	.0	1.2	.0	8.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	8.5
E	.0	.6	.0	6.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	8.5
ESE	.0	.0	.0	2.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	2.9	9.6
SE	.0	.0	.0	5.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	9.8
SSE	.0	.0	.0	7.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	8.0
S	.0	2.3	.0	11.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	16.3	8.6
SSW	.0	.6	.0	3.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	7.1
SW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.3
WSW	.0	.6	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	8.2
W	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.3
WNW	.0	.6	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.5
NW	.0	.0	.0	2.3	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	10.0
NNW	.0	1.2	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	5.6
CALM	.0	4.1													.0	4.1	
TOTAL	.1	14.0	.3	70.9	.0	11.6	.0	2.3	.0	.6	.0	.6	.0	.0	.4	100	8.3

CEILING-VISIBILITY

WIND GRAPH



PIA PEORIA, IL

CLASS 5 / NIGHT

CEILING-VISIBILITY AND TABULATIONS

ANNUAL

STATION NAME: FIA REGGIA, IL

PERIOD: 1948-1978

CLASS: NIGHT

STATION NUMBER: 14242

NO. OBS.: 230

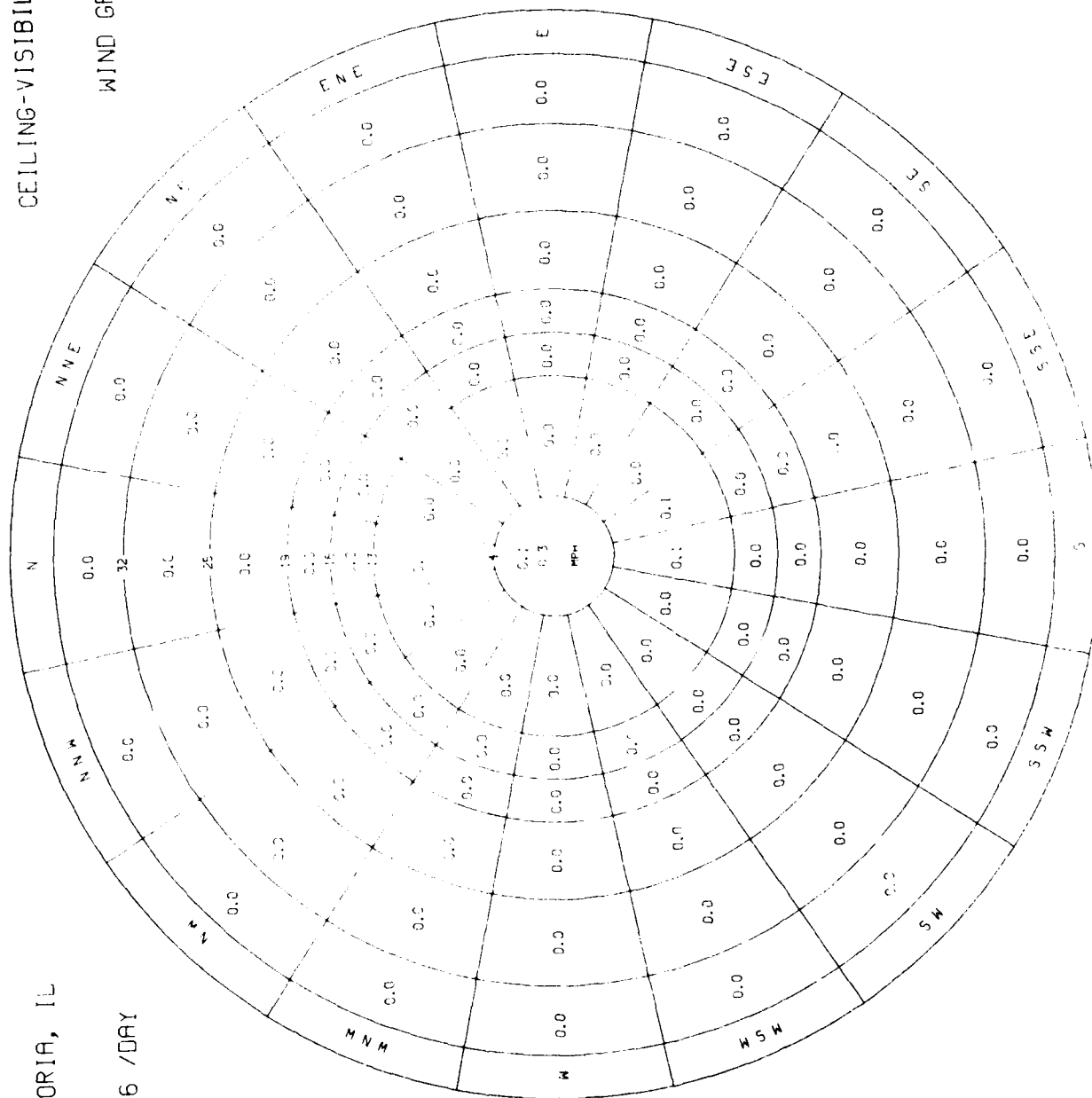
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.4	.0	5.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	8.4
NNE	.0	.9	.0	4.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	7.8
NE	.0	.4	.0	3.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.9
ENE	.0	2.2	.0	6.1	.0	2.6	.0	.0	.0	.9	.0	.0	.0	.0	.1	11.7	9.2
E	.0	.4	.0	4.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	8.7
ESE	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	6.5
SE	.0	.0	.0	5.7	.0	1.7	.0	.4	.0	.0	.0	.0	.0	.0	.1	7.8	9.5
SSE	.0	.0	.0	6.5	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.1	9.1	11.1
S	.0	1.3	.1	10.9	.0	1.7	.0	.9	.0	.9	.0	.0	.0	.0	.1	15.7	9.9
SSW	.0	.9	.0	2.6	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.2	8.8
SW	.0	.0	.0	3.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	9.1
WSW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.1
W	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.3
WNW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	7.1
NW	.0	1.7	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	5.4
NNW	.0	.4	.0	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	7.6
CALM	.0	5.2													.0	5.2	
TOTAL	.1	15.7	.4	66.1	.1	13.9	.0	2.6	.0	1.7	.0	.0	.0	.0	.7	100	8.3

CEILING-VISIBILITY

WIND GRAPH

PIA PEORIA, IL

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: PIA PEORIA, IL

CLASS 6 / DAY

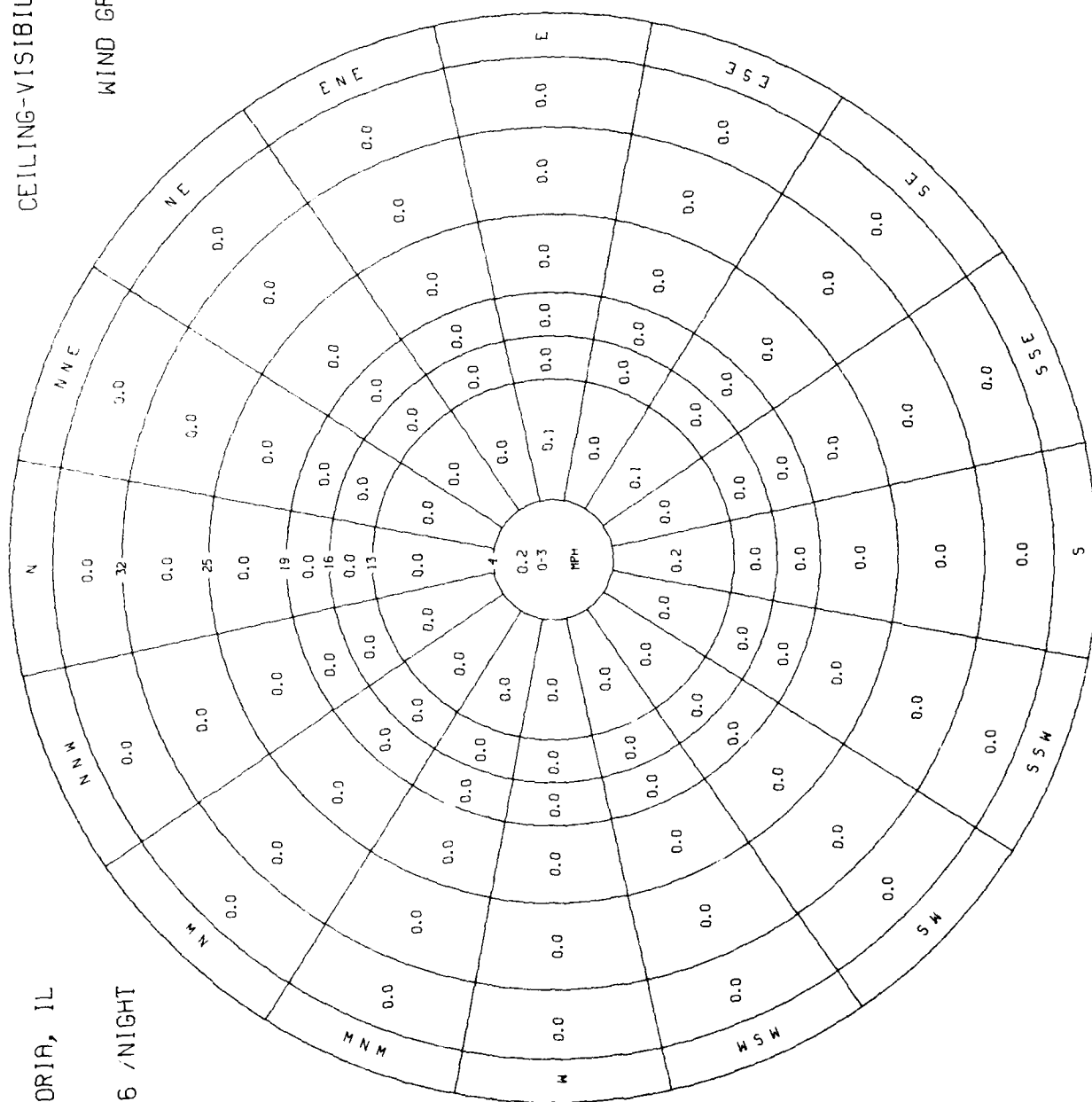
NO. OBS.: 201

STATION NUMBER: 14842

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.5	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	6.2
NNE	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.2
NE	.0	1.0	.0	3.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.9
ENE	.0	1.5	.0	6.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	8.0	6.7
E	.0	.5	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.3
ESE	.0	1.5	.0	1.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.5	6.3
SE	.0	1.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.5
SSE	.0	.0	.1	10.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.9	7.1
S	.0	4.0	.1	18.9	.0	2.0	.0	.5	.0	.0	.0	.0	.0	.0	.1	25.4	7.7
SSW	.0	2.0	.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	6.9
SW	.0	1.5	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	4.5
WSW	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	5.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	6.3
NW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	8.0
NNW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.0
CALM	.0	5.5														5.5	
TOTAL	.1	20.4	.4	74.6	.0	3.5	.0	1.5	.0	.0	.0	.0	.0	.0	.5	100	6.6

CEILING-VISIBILITY

WIND GRAPH



PIA PEORIA, IL

CLASS 6 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: PIA PEORIA, IL

CLASS 6 / NIGHT

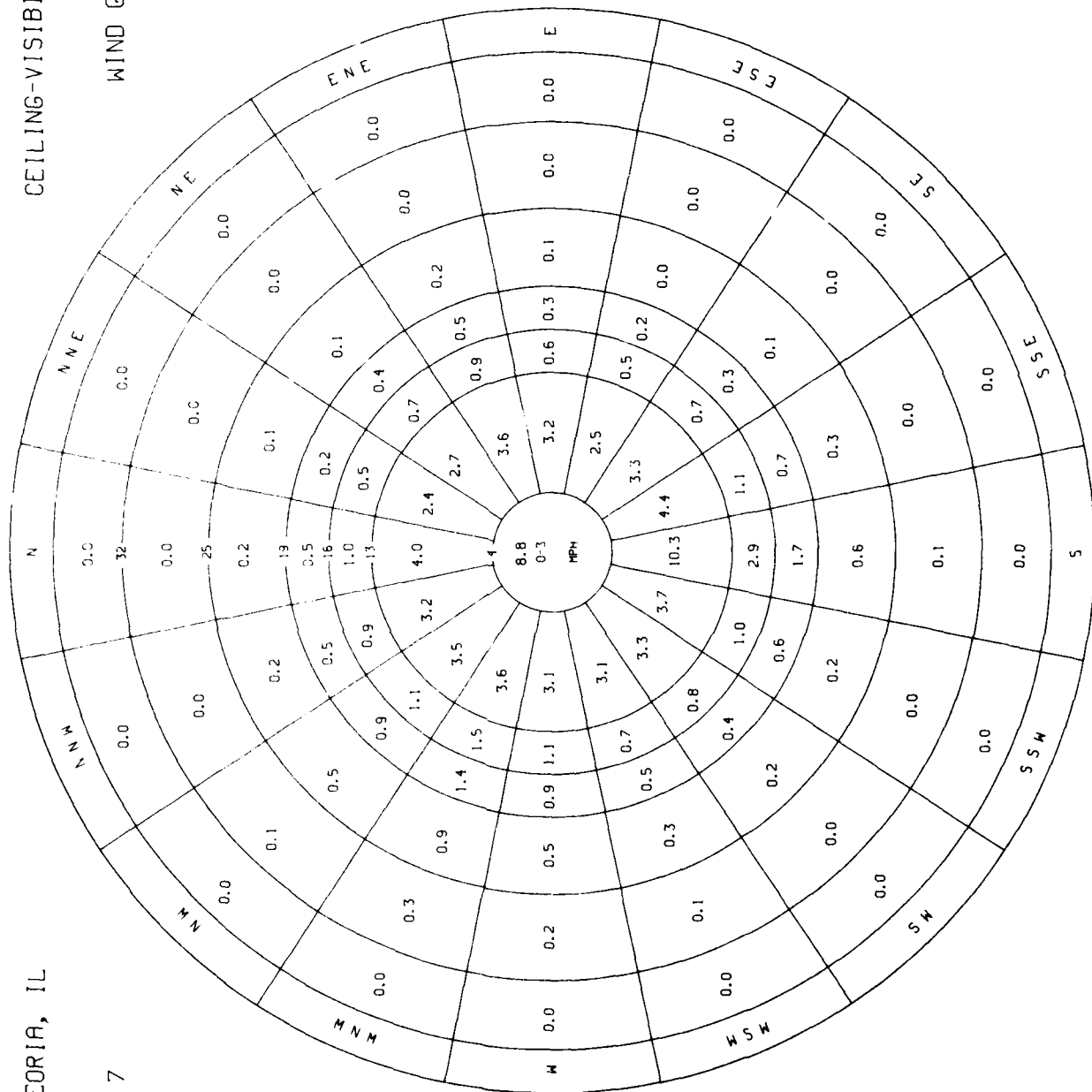
NO. OBS.: 320

STATION NUMBER: 14842

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.6	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.4
NNE	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	5.4
NE	.0	.3	.0	1.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	8.0
ENE	.0	2.5	.0	5.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.4	7.4
E	.0	.6	.1	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.3	7.1
ESE	.0	.6	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.8
SE	.0	.0	.1	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.6	8.0
SSE	.0	.9	.0	5.3	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.1	9.4
S	.0	1.2	.2	18.4	.0	2.5	.0	.3	.0	.0	.0	.0	.0	.0	.2	22.5	8.4
SSW	.0	.3	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.9
SW	.0	1.9	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.1
WSW	.0	.6	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.9
W	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	2.8	7.5
WNW	.0	1.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	6.2
NW	.0	.3	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.7
NNW	.0	1.6	.0	1.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	6.2
CALM	.1	9.4													.1	9.4	
TOTAL	.2	23.4	.6	70.3	.1	5.6	.0	.3	.0	.0	.0	.3	.0	.0	.9	100	6.7

CEILING-VISIBILITY

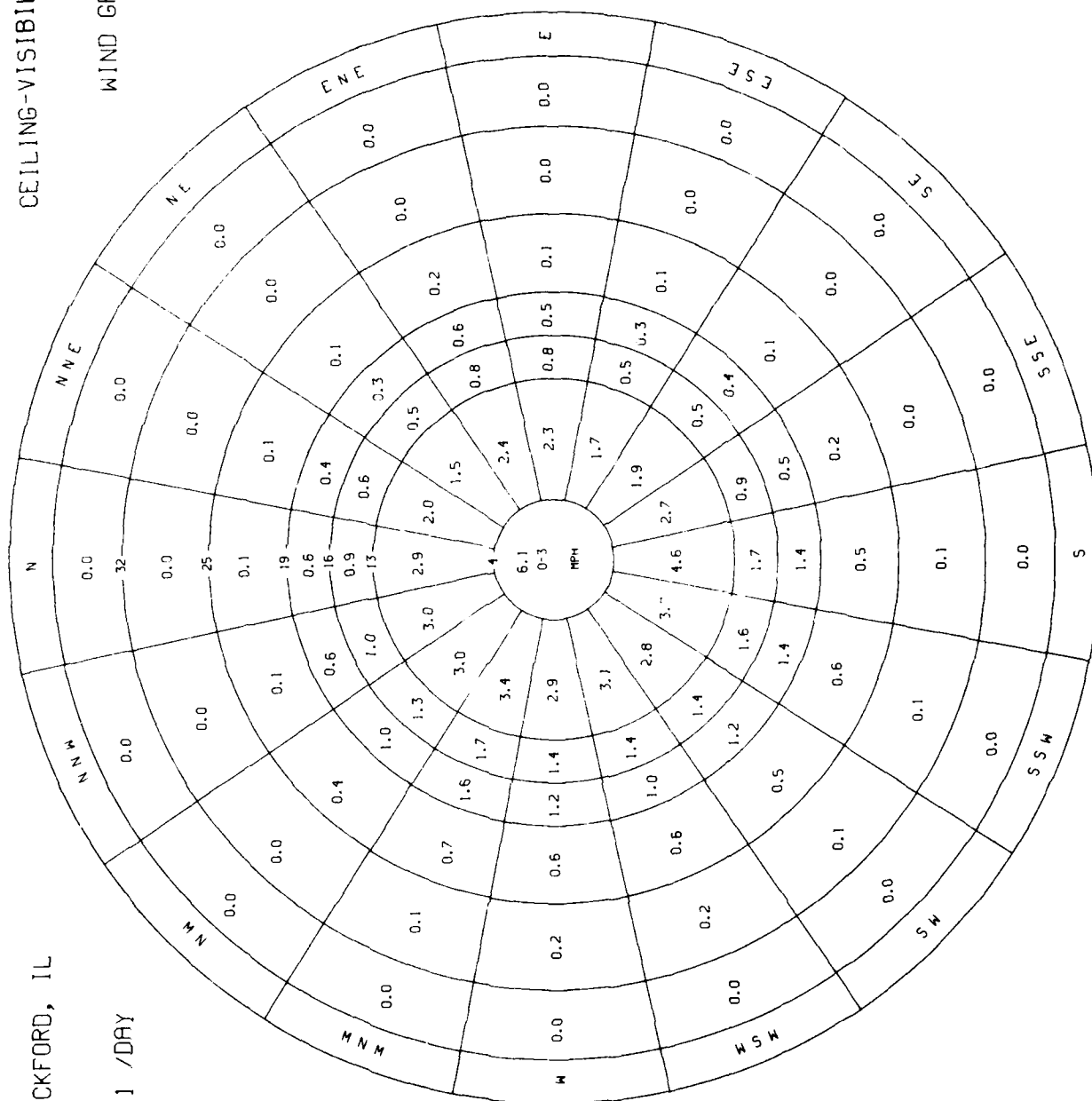
WIND GRAPH



RFD ROCKFORD, IL

WIND GRAPH

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1952-1978

STATION NAME: RFD ROCKFORD, IL

CLASS 1 / DAY

NO. OBS.: 30688

STATION NUMBER: 94822

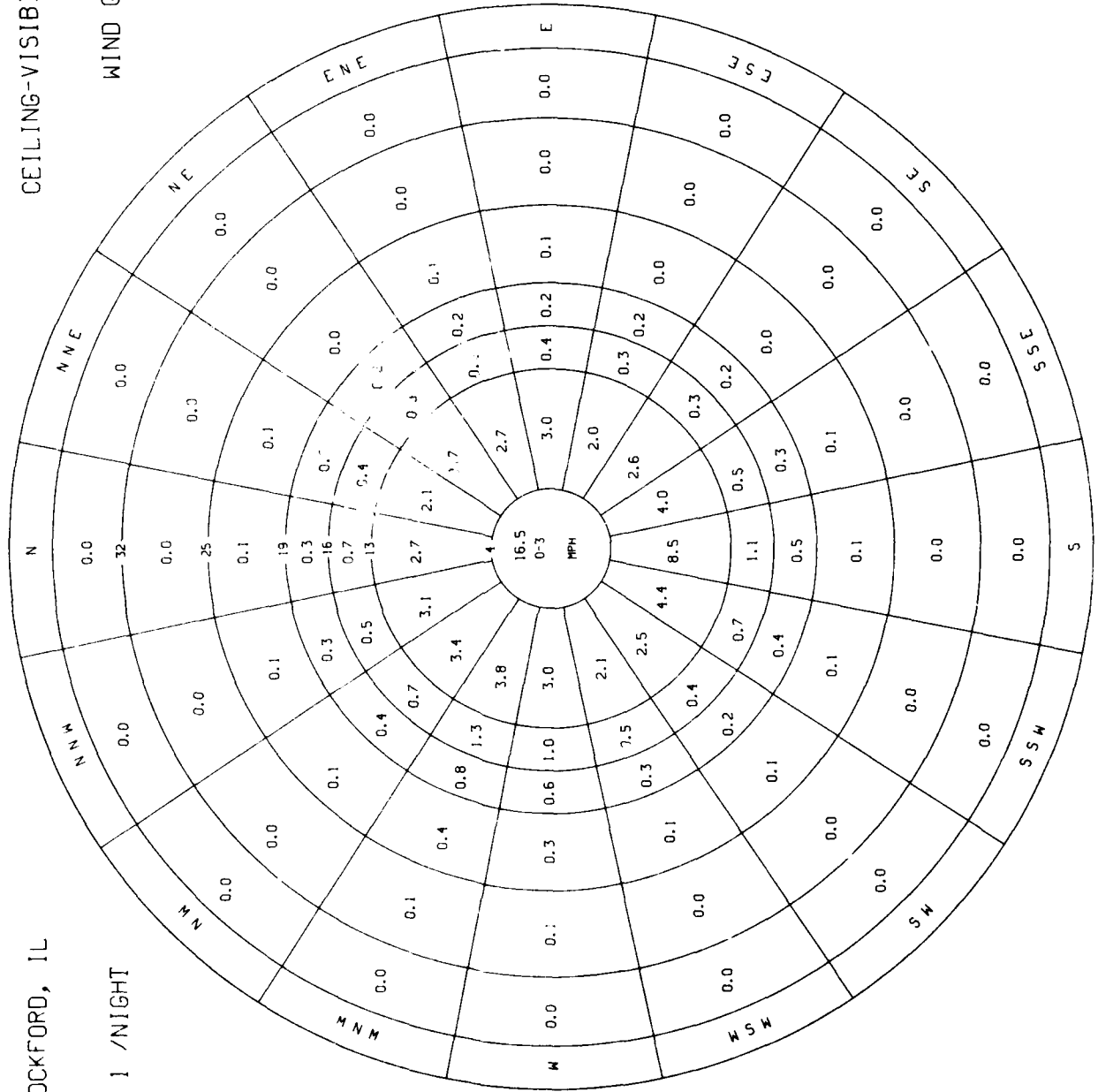
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.3	.3	2.9	3.4	.9	1.1	.6	.7	.1	.1	.0	.0	.0	.0	4.8 5.6 10.6
NNE	.2	.2	2.0	2.3	.6	.7	.4	.4	.1	.1	.0	.0	.0	.0	3.3 3.8 10.6
NE	.2	.2	1.5	1.7	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.6 3.0 10.7
ENE	.2	.3	2.4	2.8	.8	1.0	.6	.7	.2	.3	.0	.0	.0	.0	4.4 5.1 11.3
E	.2	.3	2.3	2.7	.8	.9	.5	.5	.1	.1	.0	.0	.0	.0	4.0 4.6 10.8
ESE	.2	.3	1.7	2.0	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	2.8 3.3 10.4
SE	.2	.2	1.9	2.2	.5	.6	.4	.4	.1	.1	.0	.0	.0	.0	3.0 3.5 10.3
SSE	.4	.4	2.7	3.1	.9	1.0	.5	.6	.2	.3	.0	.0	.0	.0	4.7 5.5 10.5
S	.5	.6	4.6	5.4	1.7	2.0	1.4	1.7	.5	.6	.1	.1	.0	.0	8.8 10.3 11.2
SSW	.3	.4	3.7	4.3	1.6	1.8	1.4	1.7	.6	.7	.1	.1	.0	.0	7.7 9.0 12.3
SW	.2	.3	2.8	3.3	1.4	1.6	1.2	1.4	.5	.5	.1	.2	.0	.0	6.3 7.3 12.6
WSW	.2	.3	3.1	3.6	1.4	1.6	1.0	1.2	.6	.6	.2	.2	.0	.0	6.4 7.5 12.7
W	.2	.3	2.3	3.4	1.4	1.6	1.2	1.4	.6	.7	.2	.2	.0	.0	6.6 7.7 13.0
WNW	.2	.2	3.4	3.9	1.7	1.9	1.6	1.8	.7	.8	.1	.1	.0	.0	7.6 8.8 12.9
NW	.3	.3	3.0	3.5	1.3	1.5	1.0	1.1	.4	.4	.0	.0	.0	.0	5.9 6.9 11.7
NNW	.2	.3	3.0	3.5	1.0	1.2	.6	.7	.1	.1	.0	.0	.0	.0	5.0 5.8 10.8
CALM	1.9	2.2													1.9 2.2
TOTAL	6.1	7.1	43.9	51.2	16.9	19.6	13.0	15.2	5.0	5.8	.9	1.1	.1	.1	85.9 100 11.4

CEILING-VISIBILITY

WIND GRAPH

RFD ROCKFORD, IL

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 1 / NIGHT

STATION NUMBER: 94822

NO. OBS.: 26789

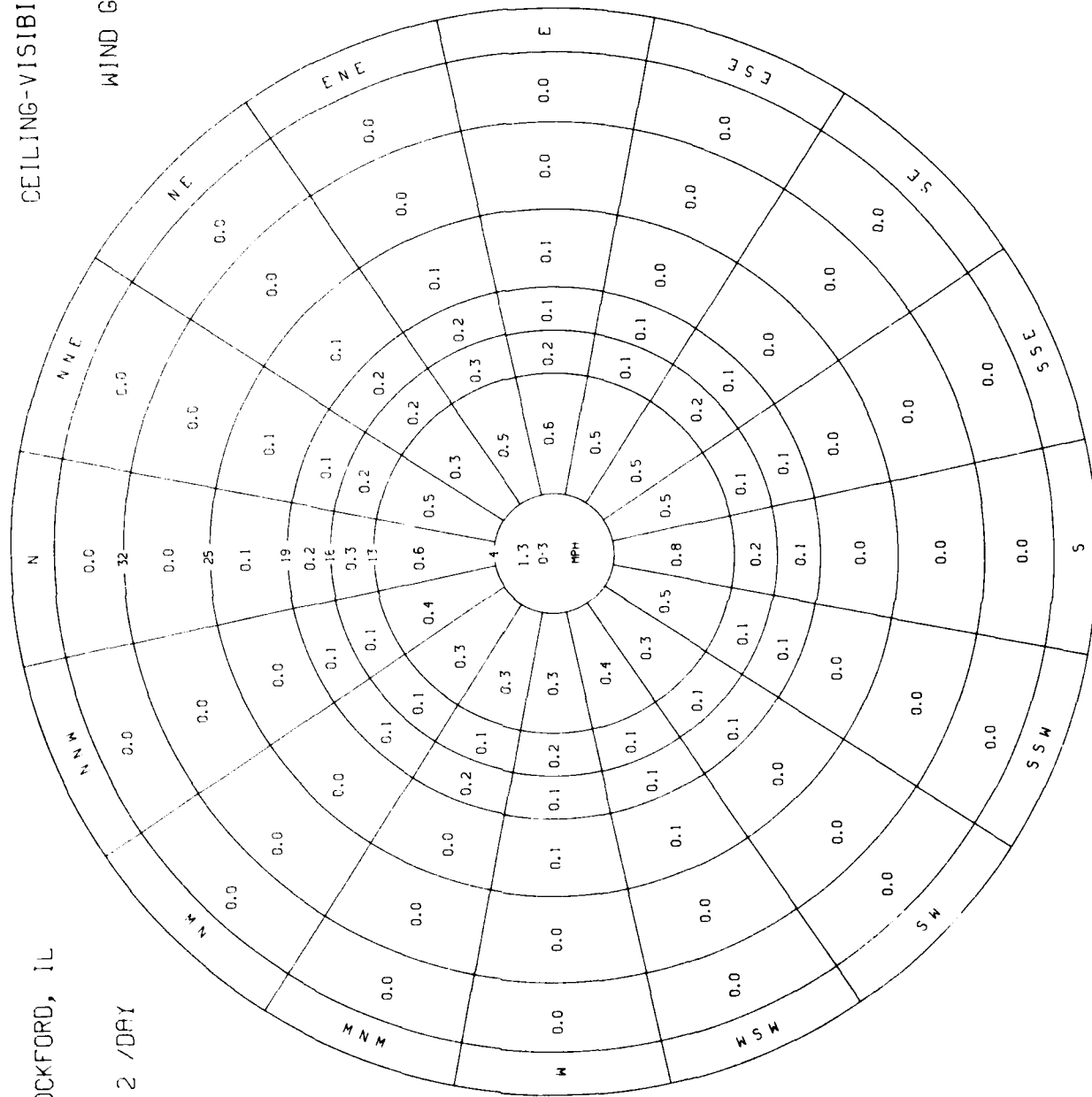
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		%
N	.4	.5	2.7	3.2	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.1	4.9	9.4
NNE	.3	.4	2.1	2.5	.4	.4	.2	.3	.1	.1	.0	.0	.0	.0	3.1	3.6	9.3
NE	.3	.3	1.7	1.9	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	2.4	2.8	8.8
ENE	.6	.7	2.7	3.1	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	4.0	4.7	8.8
E	.7	.8	3.0	3.5	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.4	5.1	8.2
ESE	.6	.8	2.0	2.3	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.1	3.7	8.0
SE	.6	.7	2.6	3.0	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.8	4.4	8.0
SSE	1.2	1.4	4.0	4.7	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	6.1	7.2	7.7
S	1.9	2.2	8.5	9.9	1.1	1.2	.5	.6	.1	.2	.0	.0	.0	.0	12.1	14.2	7.8
SSW	1.0	1.2	4.4	5.2	.7	.8	.4	.5	.1	.1	.0	.0	.0	.0	6.7	7.8	8.5
SW	.6	.7	2.5	3.0	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.8	4.5	8.5
WSW	.4	.5	2.1	2.4	.5	.6	.3	.4	.1	.2	.0	.1	.0	.0	3.6	4.2	10.1
W	.4	.5	3.0	3.6	1.0	1.1	.6	.7	.3	.4	.1	.1	.0	.0	5.4	6.4	11.1
WNW	.3	.4	3.8	4.5	1.3	1.6	.8	1.0	.4	.4	.1	.1	.0	.0	6.8	8.0	11.2
NW	.4	.5	3.4	4.0	.7	.8	.4	.5	.1	.1	.0	.0	.0	.0	5.0	5.9	9.5
NNW	.5	.5	3.1	3.6	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	4.5	5.2	8.9
CALM	5.3	7.4													6.3	7.4	
TOTAL	15.5	19.3	51.6	60.6	9.5	11.2	5.3	6.2	1.8	2.2	.4	.4	.1	.1	85.2	100	8.3

CEILING-VISIBILITY

WIND GRAPH

RFD POCKFORD, IL

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1952-1978

STATION NAME: AFD ROCKFORD, IL

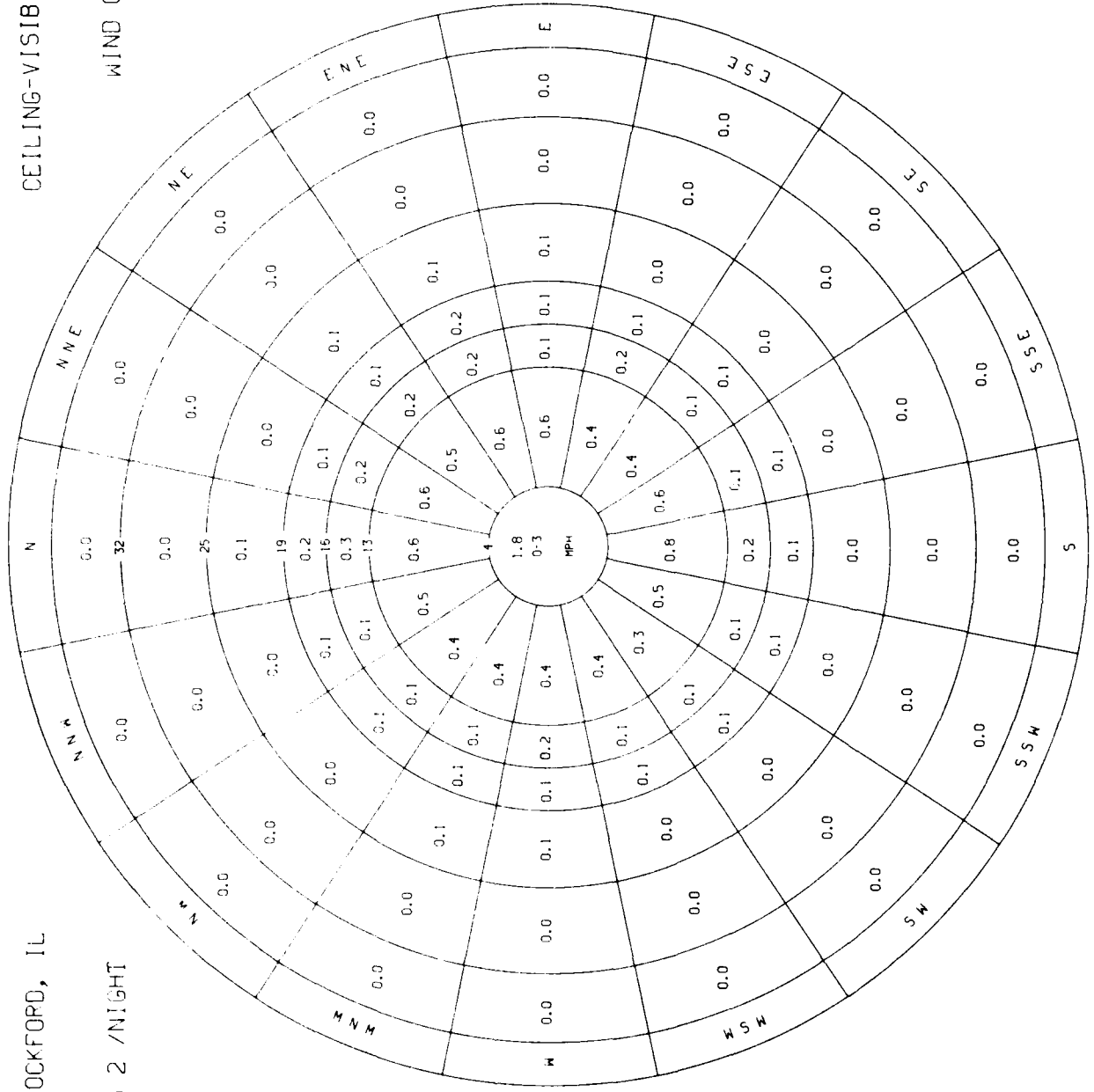
CLASS 2 / DAY

NO. OBS.: 5055

STATION NUMBER: 94822

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.4	.6	4.0	.3	2.0	.2	1.3	.1	.5	.0	.0	.0	.0	1.2 8.2
NNE	.0	.3	.5	3.5	.2	1.4	.1	.8	.1	.4	.0	.0	.0	.0	.9 6.5
NE	.0	.3	.3	2.3	.2	1.1	.2	1.2	.1	.4	.0	.0	.0	.0	.7 5.3
ENE	.0	.3	.5	3.8	.3	2.1	.2	1.4	.1	.8	.0	.3	.0	.0	1.2 8.7
E	.1	.4	.6	4.2	.2	1.3	.1	1.0	.1	.4	.0	.1	.0	.0	1.1 7.5
ESE	.1	.4	.5	3.4	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.8 5.6
SE	.1	.4	.5	3.6	.2	1.1	.1	.7	.0	.2	.0	.0	.0	.0	.8 6.0
SSE	.1	.4	.5	3.7	.1	1.0	.1	.8	.0	.3	.0	.0	.0	.0	.9 6.3
S	.1	.8	.8	5.8	.2	.7	.1	.9	.0	.3	.0	.0	.0	.0	1.3 9.5
SSW	.1	.4	.5	3.4	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8 5.5
SW	.0	.3	.3	2.2	.1	.6	.1	.6	.0	.2	.0	.1	.0	.0	.6 4.0
WSW	.0	.3	.4	2.7	.1	.9	.1	.7	.1	.6	.0	.1	.0	.0	.8 5.3
W	.0	.2	.3	1.8	.2	1.2	.1	.7	.1	.5	.0	.0	.0	.0	.6 4.4
WNW	.0	.3	.3	2.2	.1	.9	.2	1.1	.0	.3	.0	.1	.0	.0	.7 4.9
NW	.0	.3	.3	2.1	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.6 4.0
NNW	.1	.4	.4	2.8	.1	.9	.1	.5	.0	.2	.0	.0	.0	.0	.7 4.7
CALM	.5	3.7													.5 3.7
TOTAL	1.3	9.5	7.3	51.6	2.6	18.4	1.9	13.7	.8	5.6	.1	1.0	.0	.1	14.1 10.9

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1952-1978

STATION NAME: RFD ROLK FORD, IL

CLASS 2 / NIGHT

NO. OBS.: 4647

STATION NUMBER: 94822

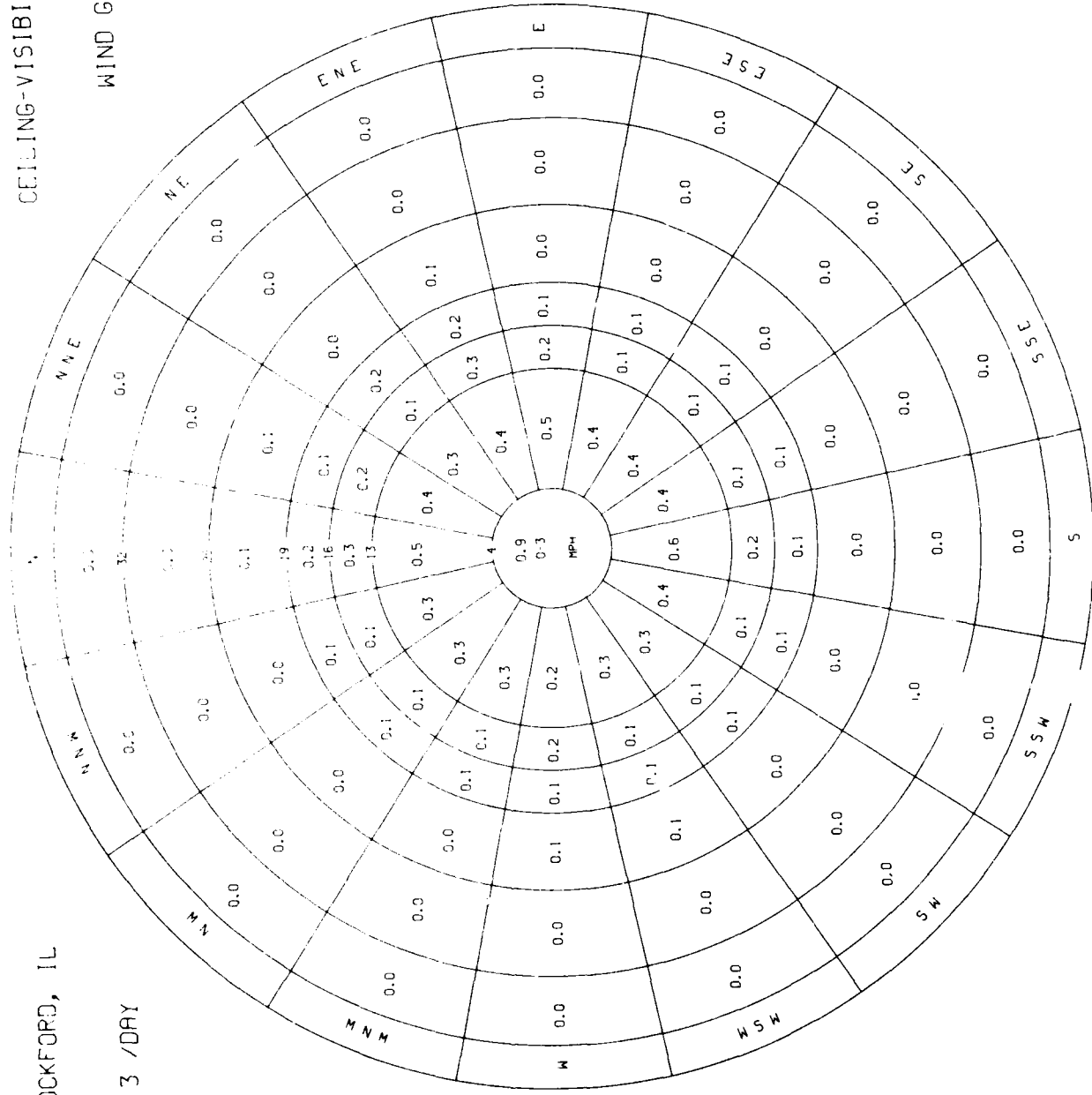
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.5	.6	3.9	.3	2.0	.2	1.5	.1	.4	.0	.0	.0	.0	1.2 8.2
NNE	.0	.3	.6	3.8	.2	1.4	.1	.9	.0	.3	.0	.1	.0	.0	1.0 6.8
NE	.0	.2	.5	3.1	.2	1.2	.1	.7	.1	.5	.0	.2	.0	.0	.9 5.9
ENE	.1	.6	.6	4.2	.2	1.6	.2	1.4	.1	.8	.0	.2	.0	.0	1.3 8.9
E	.1	.4	.6	4.4	.1	1.0	.1	.7	.1	.3	.0	.0	.0	.0	1.0 6.9
ESE	.1	.5	.4	3.0	.2	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.8 5.3
SE	.1	.4	.4	2.9	.1	.8	.1	.6	.0	.3	.0	.0	.0	.0	.7 4.8
SSE	.1	.8	.6	3.7	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.9 6.3
S	.1	.8	.8	5.5	.2	1.5	.1	.7	.0	.1	.0	.1	.0	.0	1.3 8.8
SSW	.1	.5	.5	3.3	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.8 5.3
SW	.0	.3	.3	2.3	.1	.5	.1	.3	.0	.2	.0	.0	.0	.0	.5 3.6
WSW	.0	.3	.4	2.5	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.7 4.6
W	.0	.3	.4	2.5	.2	1.0	.1	.6	.1	.5	.0	.1	.0	.0	.7 4.9
WNW	.0	.2	.4	2.5	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.7 4.9
NW	.0	.2	.4	2.7	.1	.7	.1	.5	.0	.3	.0	.0	.0	.0	.6 4.3
NNW	.0	.3	.5	3.5	.1	.9	.1	.4	.0	.1	.0	.1	.0	.0	.8 5.3
CALM	.8	5.3													.8 5.3
TOTAL	1.8	11.9	7.9	53.8	2.5	17.2	1.6	11.1	.7	4.8	.2	1.2	.0	.0	14.8 100 10.3

CEILING-VISIBILITY

WIND GRAPH

RFD ROCKFORD, IL

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 3 / CA

STATION NUMBER: 94222

NO. OBS.: 4181

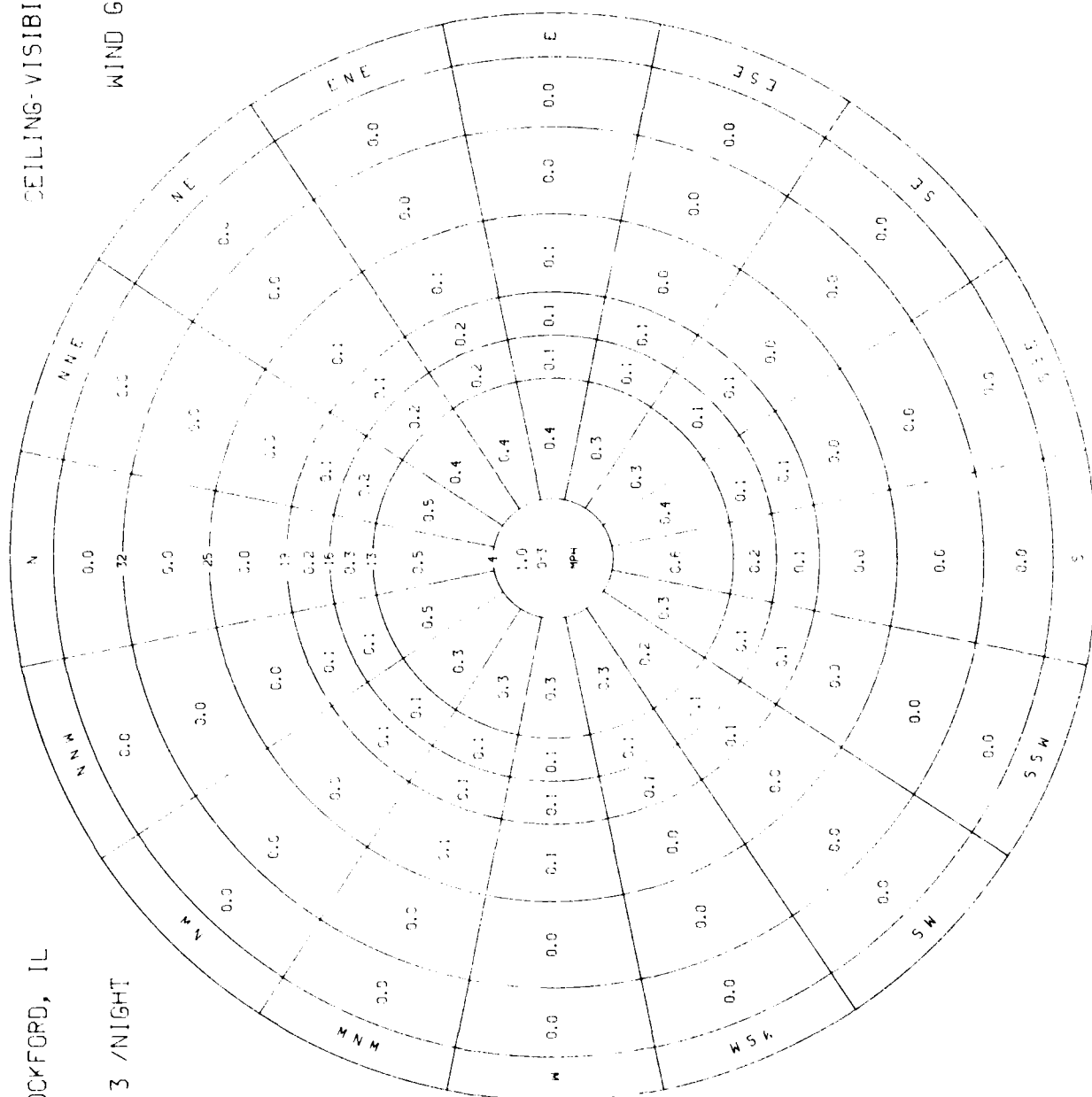
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.5	4.3	.3	2.2	.2	1.4	.1	.4	.0	.0	.0	.0	1.0 8.6 11.8
NNE	.0	.2	.4	3.6	.2	1.6	.1	.8	.1	.4	.0	.0	.0	.0	.8 6.7 11.9
NNE	.0	.2	.3	2.3	.1	1.1	.2	1.3	.0	.3	.0	.0	.0	.0	.6 5.4 12.5
ENE	.0	.1	.4	3.7	.3	2.2	.2	1.6	.1	.9	.0	.3	.0	.0	1.0 8.8 13.3
E	.0	.3	.5	4.0	.2	1.3	.1	1.1	.0	.4	.0	.1	.0	.0	.8 7.2 11.4
ESE	.0	.4	.4	3.3	.1	.7	.1	.8	.0	.3	.0	.1	.0	.0	.6 5.5 11.2
SE	.0	.4	.4	3.3	.1	1.1	.1	.7	.0	.1	.0	.0	.0	.0	.7 5.8 10.4
SSE	.0	.3	.4	3.3	.1	1.1	.1	.8	.0	.3	.0	.0	.0	.0	.7 5.9 11.1
S	.1	.7	.6	5.1	.2	1.7	.1	.9	.0	.3	.0	.0	.0	.0	1.0 8.8 10.3
SSW	.0	.4	.4	3.2	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.6 5.3 10.9
SW	.0	.2	.3	2.2	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.5 4.2 12.0
WSW	.0	.2	.3	2.8	.1	1.0	.1	.8	.1	.7	.0	.1	.0	.0	.7 5.7 12.7
W	.0	.2	.2	1.8	.2	1.4	.1	.7	.1	.5	.0	.0	.0	.0	.6 4.8 12.9
WNW	.0	.2	.3	2.5	.1	1.1	.1	1.2	.0	.3	.0	.0	.0	.0	.6 5.3 12.4
NW	.0	.3	.3	2.2	.1	.8	.1	.9	.0	.1	.0	.0	.0	.0	.5 4.3 11.5
NNW	.0	.3	.3	2.8	.1	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.6 4.9 10.9
CALM	.3	2.8													.3 2.8
TOTAL	.9	7.5	5.9	50.5	2.3	19.9	1.7	14.9	.7	6.0	.1	1.0	.0	.1	11.7 100 11.4

CEILING-VISIBILITY

WIND GRAPH

RFD ROCKFORD, IL

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: AFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 3 / NIGHT

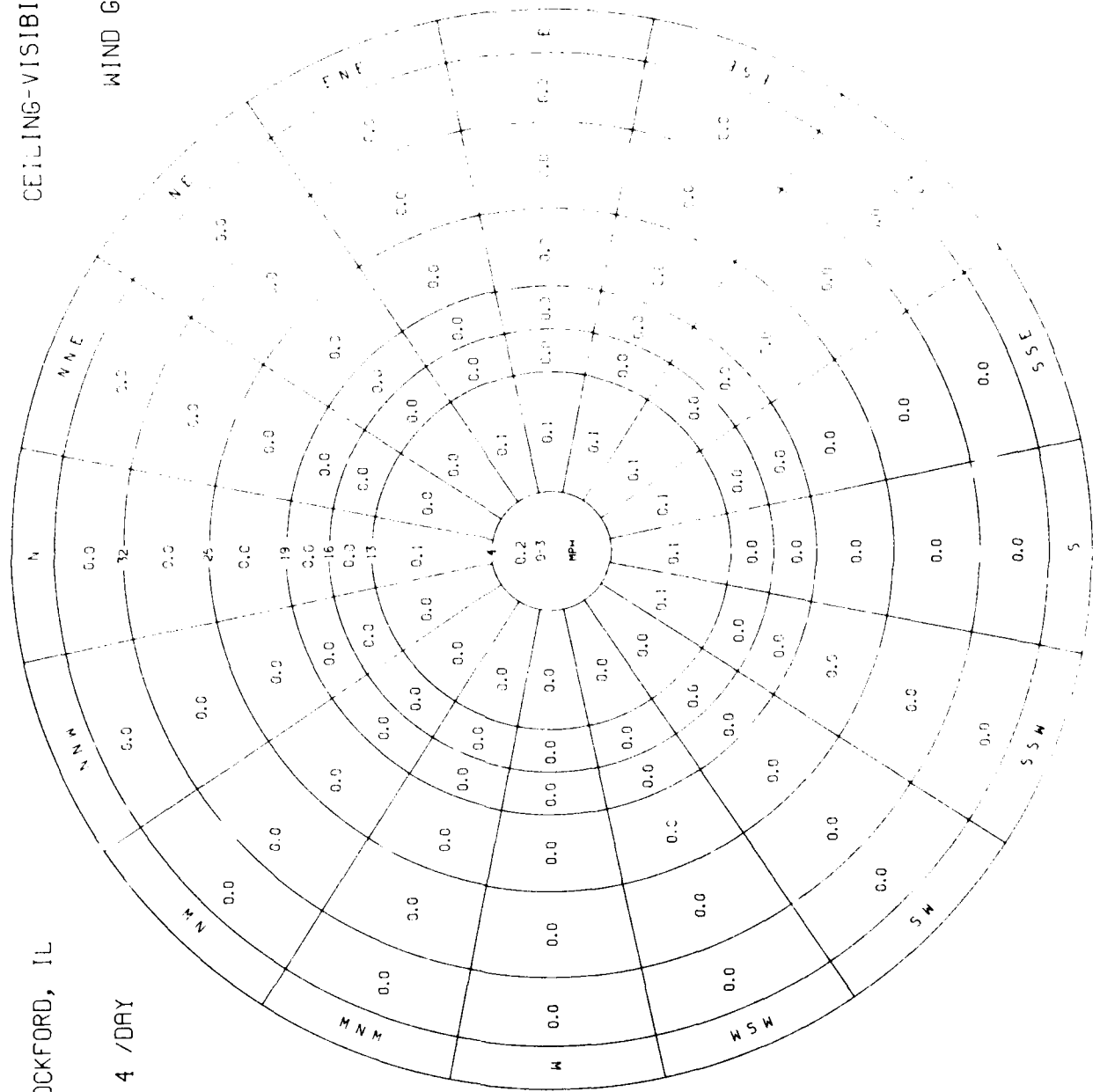
STATION NUMBER: 94822

NO. OBS.: 3667

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.1	.4	.5	4.1	.3	2.2	.2	1.8	.0	.4	.0	.0	.0	.0	.0	1.0	8.9	12.0
NNE	.0	.2	.5	4.0	.2	1.7	.1	1.1	.0	.4	.0	.1	.0	.0	.0	.9	7.4	11.8
NE	.0	.2	.4	3.3	.2	1.5	.1	.8	.1	.6	.0	.2	.0	.0	.0	.8	6.5	12.6
ENE	.1	.5	.4	3.7	.2	1.9	.2	1.6	.1	.9	.0	.3	.0	.0	.0	1.0	8.9	12.8
E	.0	.3	.4	3.8	.1	1.1	.1	.8	.1	.4	.0	.0	.0	.0	.0	.7	6.4	10.9
ESE	.0	.4	.3	2.8	.1	1.1	.1	.4	.0	.2	.0	.0	.0	.0	.0	.6	4.9	10.4
SE	.0	.2	.3	2.6	.1	.7	.1	.6	.0	.3	.0	.0	.0	.0	.0	.5	4.4	10.9
SSE	.1	.8	.4	3.2	.1	.8	.1	.6	.0	.3	.0	.0	.0	.0	.0	.7	5.6	10.0
S	.1	.5	.6	4.8	.2	1.6	.1	.7	.0	.1	.0	.1	.0	.0	.0	.9	7.9	10.2
SSW	.0	.4	.3	2.8	.1	.9	.1	.5	.0	.1	.0	.1	.0	.0	.0	.6	4.8	10.3
SW	.0	.3	.2	2.1	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.0	.4	3.6	10.8
WSW	.0	.2	.3	2.8	.1	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.0	.6	5.2	11.6
W	.0	.2	.3	2.7	.1	1.3	.1	.7	.1	.6	.0	.1	.0	.0	.0	.7	5.6	12.4
WNW	.0	.1	.3	2.7	.1	1.1	.1	.9	.1	.5	.0	.1	.0	.0	.0	.6	5.4	12.6
NW	.0	.2	.3	2.9	.1	.8	.1	.6	.0	.3	.0	.1	.0	.0	.0	.6	4.7	11.0
NNW	.0	.4	.5	4.0	.1	1.1	.1	.5	.0	.1	.0	.1	.0	.0	.0	.7	6.2	10.1
CALM	.4	3.4														.4	3.4	
TOTAL	1.0	8.6	6.1	52.3	2.2	19.3	1.5	12.8	.6	5.6	.2	1.3	.0	.1		11.7	100	11.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 4 / DAY

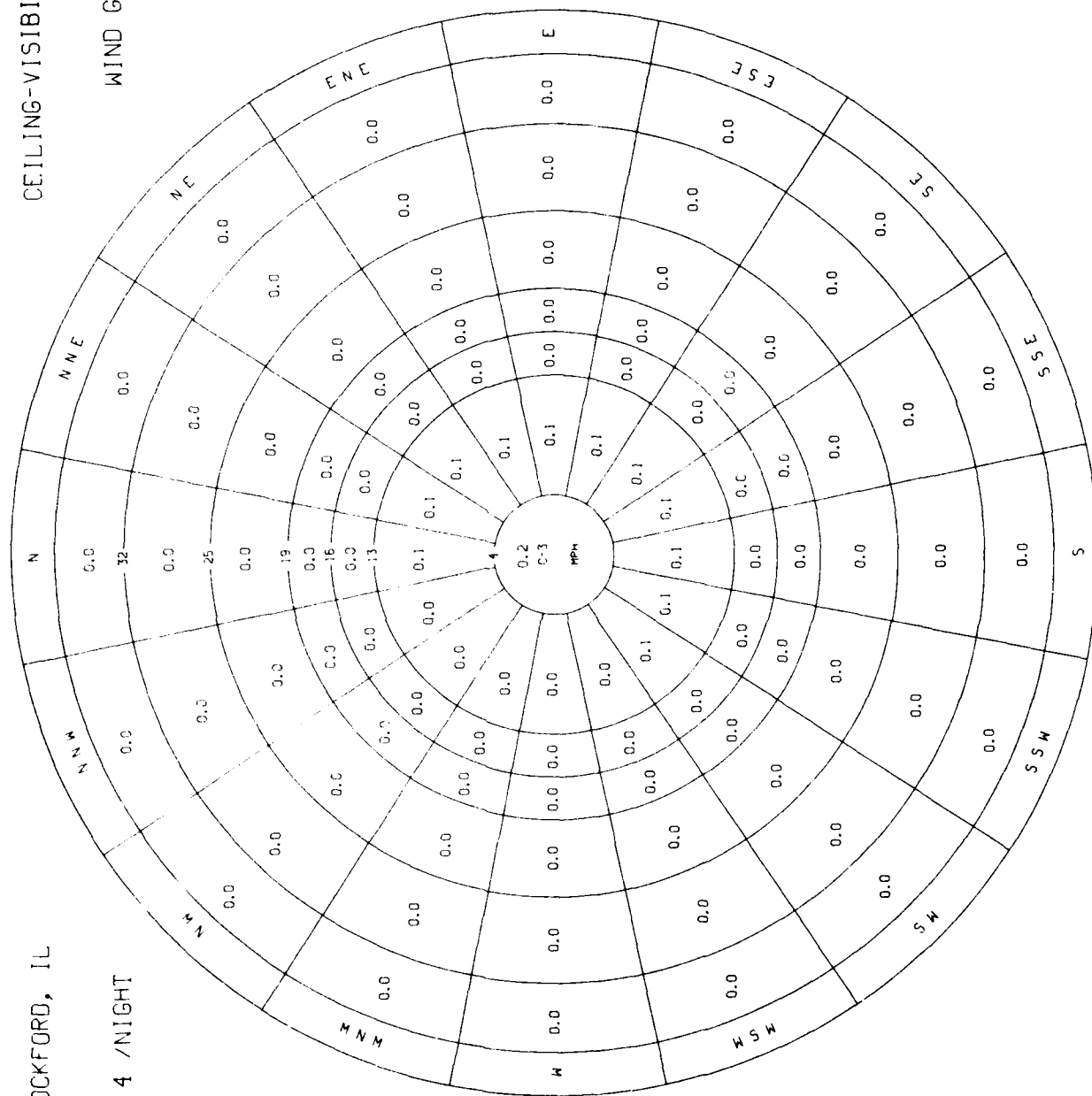
STATION NUMBER: 94822

NO. OBS.: 555

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	1.1	.1	3.2	.0	1.6	.0	1.4	.0	.9	.0	.0	.0	.0	.1	8.3	11.7
NNE	.0	.4	.0	2.7	.0	.7	.0	1.1	.0	.5	.0	.0	.0	.0	.1	5.4	11.5
NE	.0	.2	.0	2.7	.0	1.3	.0	1.3	.0	.2	.0	.0	.0	.0	.1	5.6	12.1
ENE	.0	.5	.1	5.9	.0	2.0	.0	.9	.0	.7	.0	.5	.0	.0	.2	10.6	11.4
E	.0	.9	.1	5.6	.0	1.8	.0	.9	.0	.2	.0	.2	.0	.0	.1	9.5	10.5
ESE	.0	.2	.1	3.8	.0	.9	.0	.2	.0	.2	.0	.2	.0	.0	.1	5.4	10.4
SE	.0	.7	.1	4.0	.0	1.4	.0	.4	.0	.4	.0	.0	.0	.0	.1	6.8	9.8
SSE	.0	.0	.1	6.5	.0	.4	.0	.9	.0	.0	.0	.0	.0	.0	.1	7.7	10.4
S	.0	.9	.1	7.6	.0	1.4	.0	1.6	.0	.0	.0	.0	.0	.0	.2	11.5	9.6
SSW	.0	.4	.1	3.4	.0	.9	.0	.9	.0	.4	.0	.0	.0	.0	.1	5.9	10.4
SW	.0	.2	.0	1.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	7.4
WSW	.0	.5	.0	1.3	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.5	8.6
W	.0	.2	.0	1.6	.0	.4	.0	.5	.0	.2	.0	.0	.0	.0	.0	2.9	10.7
WNW	.0	.5	.0	1.1	.0	.5	.0	.9	.0	.0	.0	.4	.0	.2	.1	3.6	13.9
NW	.0	.2	.0	2.3	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.9	8.7
NNW	.0	.0	.0	3.1	.0	.2	.0	.5	.0	.2	.0	.0	.0	.0	.1	4.0	9.6
CALM	.1	5.4													.1	5.4	
TOTAL	.2	12.3	.9	56.2	.2	14.4	.2	11.7	.1	4.0	.0	1.3	.0	.2	1.6	10.0	

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 4 / NIGHT

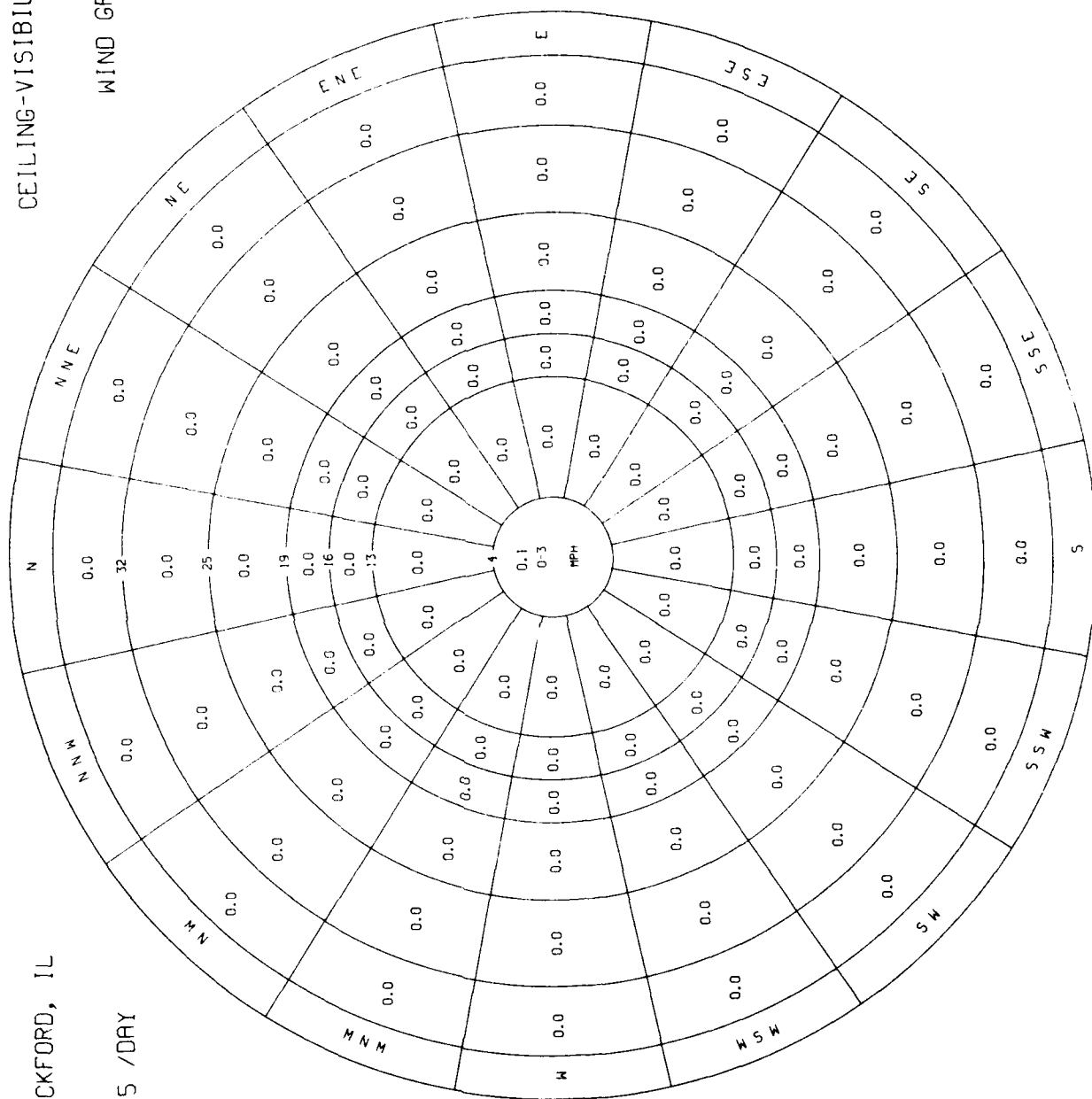
STATION NUMBER: 94822

NO. OBS.: 546

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	.5	.1	4.2	.0	1.6	.0	.7	.0	.5	.0	.2	.0	.0	.1	7.9
NNE	.0	.4	.1	4.6	.0	.5	.0	.7	.0	.2	.0	.2	.0	.0	.1	6.6
NE	.0	.4	.1	3.8	.0	.4	.0	.0	.0	.2	.0	.0	.0	.0	.1	4.8
ENE	.0	.9	.1	7.1	.0	.7	.0	.7	.0	.7	.0	.0	.0	.0	.2	10.3
E	.0	.4	.1	6.2	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.1	8.4
ESE	.0	.5	.1	5.5	.0	1.5	.0	1.1	.0	.2	.0	.0	.0	.0	.2	8.8
SE	.0	.7	.1	3.3	.0	1.3	.0	.5	.0	.0	.0	.0	.0	.0	.1	5.9
SSE	.0	.5	.1	5.1	.0	1.5	.0	1.1	.0	.0	.0	.0	.0	.0	.2	9.9
S	.0	.7	.1	6.4	.0	2.2	.0	.5	.0	.0	.0	.0	.0	.0	.1	6.4
SSW	.0	.4	.1	4.8	.0	.7	.0	.5	.0	.0	.0	.0	.0	.0	.1	4.6
SW	.0	.2	.1	3.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
WSW	.0	.4	.0	1.6	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.2
W	.0	.2	.0	1.6	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	2.9
WNW	.0	.4	.0	2.0	.0	.4	.0	.0	.0	.0	.0	.2	.0	.0	.1	2.6
NW	.0	.0	.0	1.8	.0	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.8
NNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	1.8
CALM	.1	6.2													.1	6.2
TOTAL	.2	12.8	1.1	63.2	.2	13.7	.1	7.1	.0	2.2	.0	.9	.0	.0	1.7	100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1952-1978

STATION NAME: AFO ROCKFORD, IL

CLASS 5 / DAY

NO. OBS.: 134

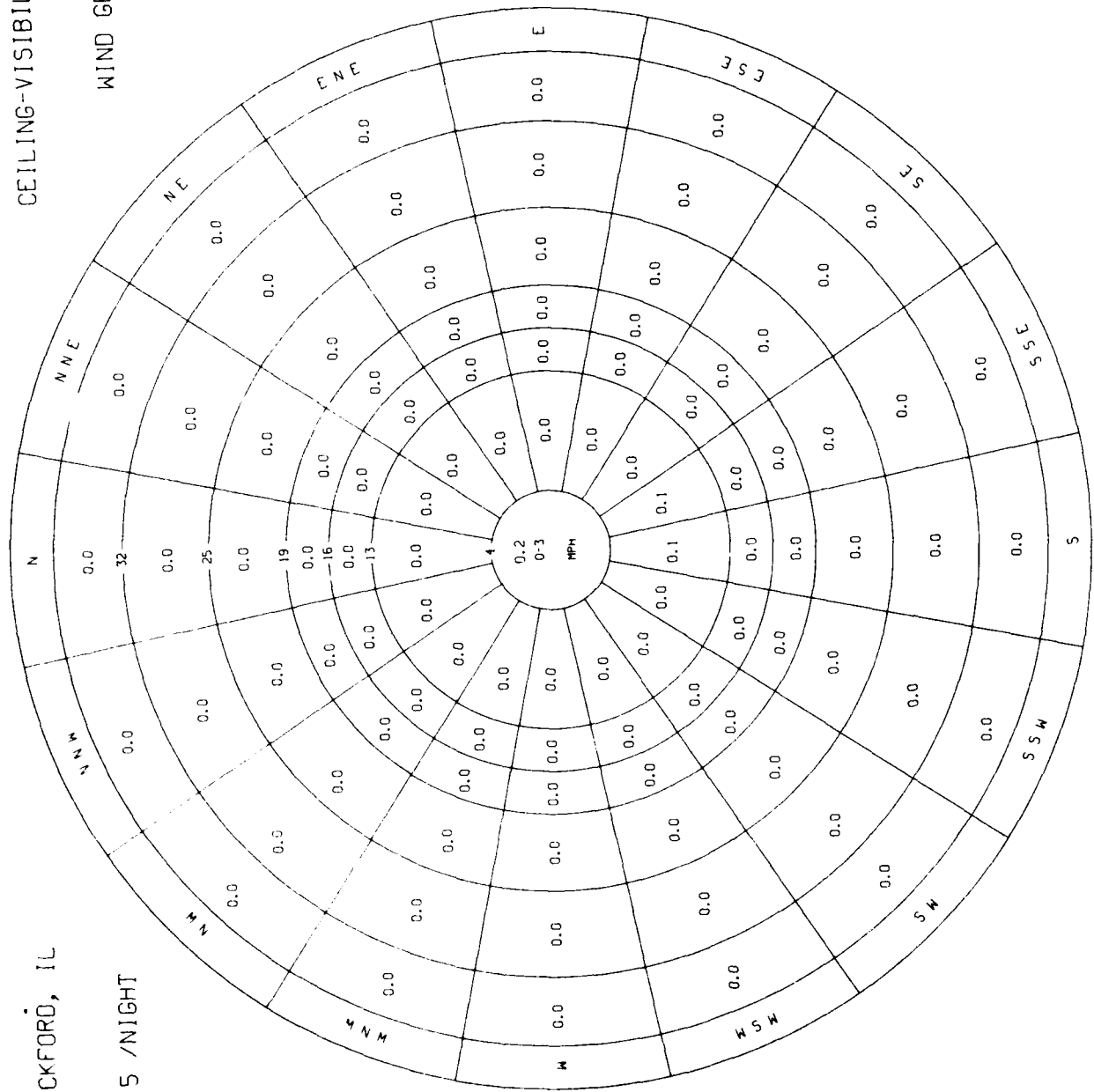
STATION NUMBER: 94822

D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.0	.0	.7	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	3.0	17.7		
NNE	.0	.0	.0	5.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	6.0	10.0		
NE	.0	.7	.0	1.5	.0	.7	.0	.0	.0	2.2	.0	.0	.0	.0	.0	5.2	14.3		
ENE	.0	1.5	.0	3.7	.0	.7	.0	.0	.0	.7	.0	.7	.0	.0	.0	7.5	10.6		
E	.0	.0	.0	6.0	.0	.7	.0	.7	.0	.7	.0	.7	.0	.0	.0	9.0	11.4		
ESE	.0	1.5	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.1		
SE	.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	8.4		
SSE	.0	1.5	.0	8.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	10.4	7.9		
S	.0	.0	.0	11.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.9	8.5		
SSW	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	8.0		
SW	.0	.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	4.7		
WSW	.0	1.5	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	5.9		
W	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	8.0		
WNW	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.0		
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	1.5	23.0		
NNW	.0	.0	.0	3.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	8.4		
CALM	.0	10.4														10.4			
TOTAL	.1	18.7	.2	66.4	.0	3.7	.0	2.2	.0	6.7	.0	2.2	.0	.0	.4	100	8.3		

RFD ROCKFORD, IL

WIND GRAPH

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1952-1978

STATION NAME: RFD ROCKFORD, IL

CLASS 5 / NIGHT

NO. OBS.: 200

STATION NUMBER: 34622

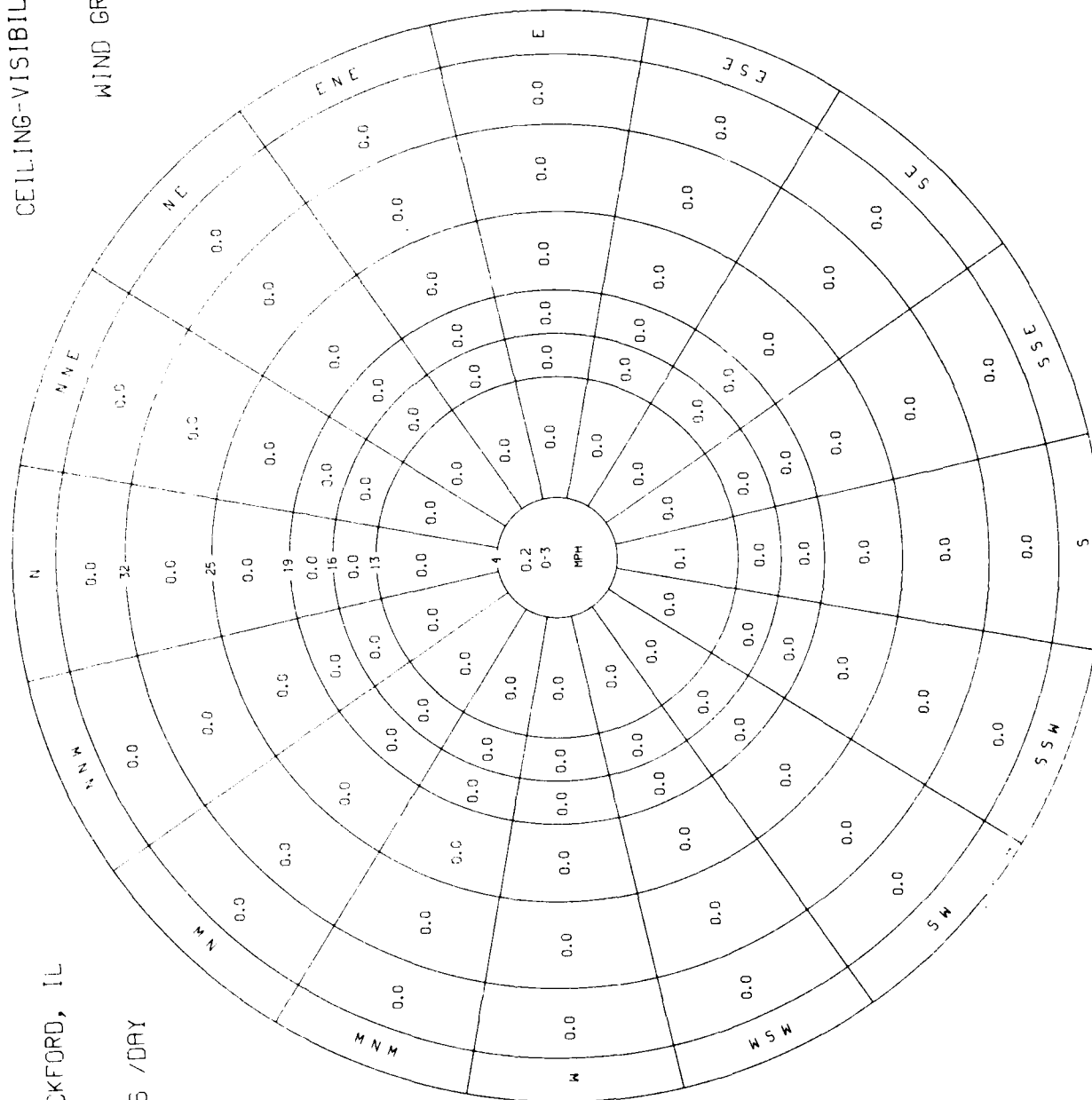
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	3.5	8.3
NNE	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	2.5	11.0
NNE	.0	.5	.0	1.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	2.5	9.8
ENE	.0	1.5	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.9
E	.0	1.0	.0	7.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	9.0	7.2
ESE	.0	1.0	.0	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.6
SE	.0	2.0	.0	4.5	.0	1.5	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.1	9.0	8.9
SSE	.0	.5	.1	9.5	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	11.5	8.4
S	.0	3.0	.1	11.0	.0	1.0	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.1	16.5	8.3
SSW	.0	1.0	.0	5.0	.0	1.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	7.5	9.1
SW	.0	.5	.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	8.4
WSW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	10.0
W	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	5.0
WNW	.0	1.5	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	5.1
NW	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	4.0	9.4
NNW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	8.8
CALM	.1	12.0														.1	12.0	
TOTAL	.2	26.5	.4	61.0	.0	6.0	.0	2.5	.0	3.5	.0	.5	.0	.0	.0	.6	10.0	7.2

CEILING-VISIBILITY

WIND GRAPH

RFD ROCKFORD, IL

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: AFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 6 / DAY

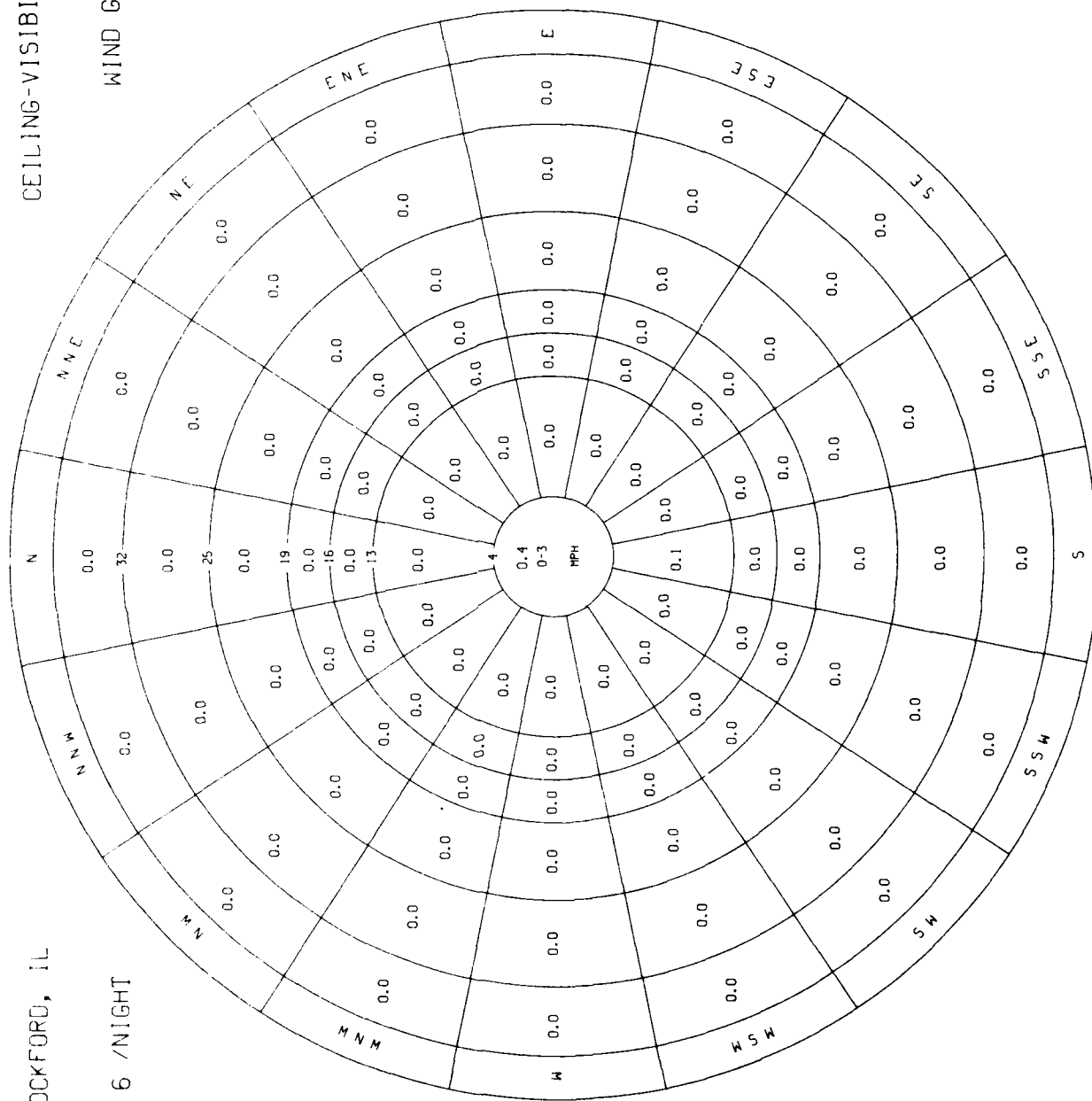
STATION NUMBER: 94822

NO. OBS.: 185

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	.0	.0	2.2	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.7
NNE	.0	1.1	.0	2.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
NE	.0	1.1	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
ENE	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
E	.0	1.6	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9
ESE	.0	1.1	.0	3.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4
SE	.0	.0	.0	6.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6
SSE	.0	3.2	.0	2.7	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	7.6
S	.0	3.8	.1	10.8	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	16.8
SSW	.0	2.2	.0	8.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.3
SW	.0	2.2	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9
WSW	.0	.5	.0	2.7	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.8
W	.0	1.1	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7
WNW	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	2.2
NW	.0	1.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7
NNW	.0	2.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
CALM	.1	15.7													.1	15.7
TOTAL	.2	39.5	.3	51.9	.0	6.5	.0	1.6	.0	.0	.0	.0	.0	.5	.5	100
																5.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS: / Night

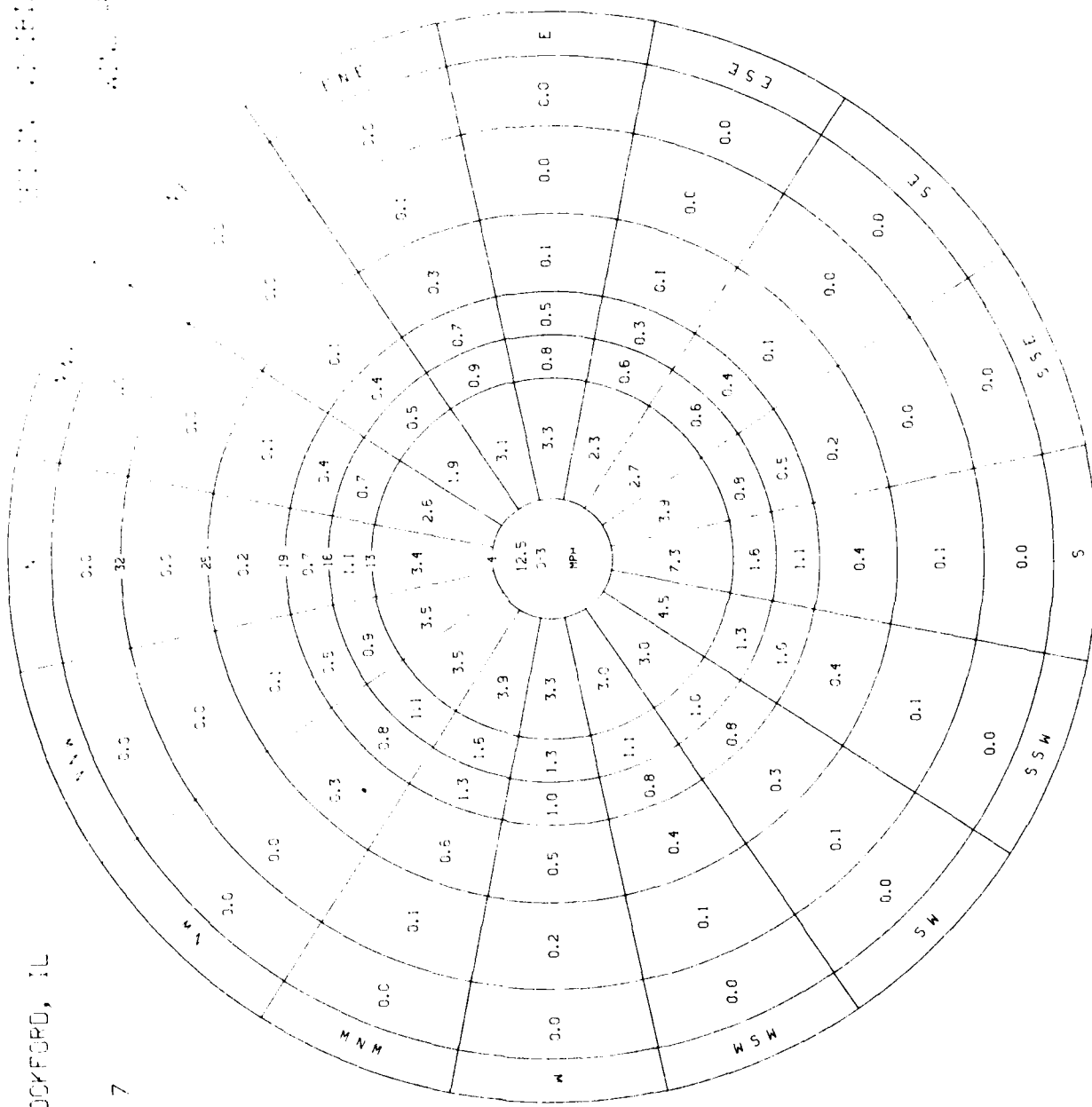
STATION NUMBER: 94822

NO. OBS.: 234

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	.0	.0	1.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
NNE	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
NE	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
ENE	.0	1.3	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	6.4
E	.0	2.1	.0	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.5
ESE	.0	1.3	.0	2.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
SE	.0	1.3	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1
SSE	.0	3.0	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	8.1
S	.0	3.4	.1	10.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	14.1
SSW	.0	2.1	.0	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.5
SW	.0	.9	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0
WSW	.0	2.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
W	.0	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
WNW	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
NW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
NNW	.0	.4	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
CALM	.2	26.9			.0	2.1	.0	.9	.0	.0	.0	.0	.0	.0	.2	26.9
TOTAL	.4	48.7	.4	48.3	.0	2.1	.0	.9	.0	.0	.0	.0	.0	.0	.7	100

WIND VELOCITY

WIND DIRECTION

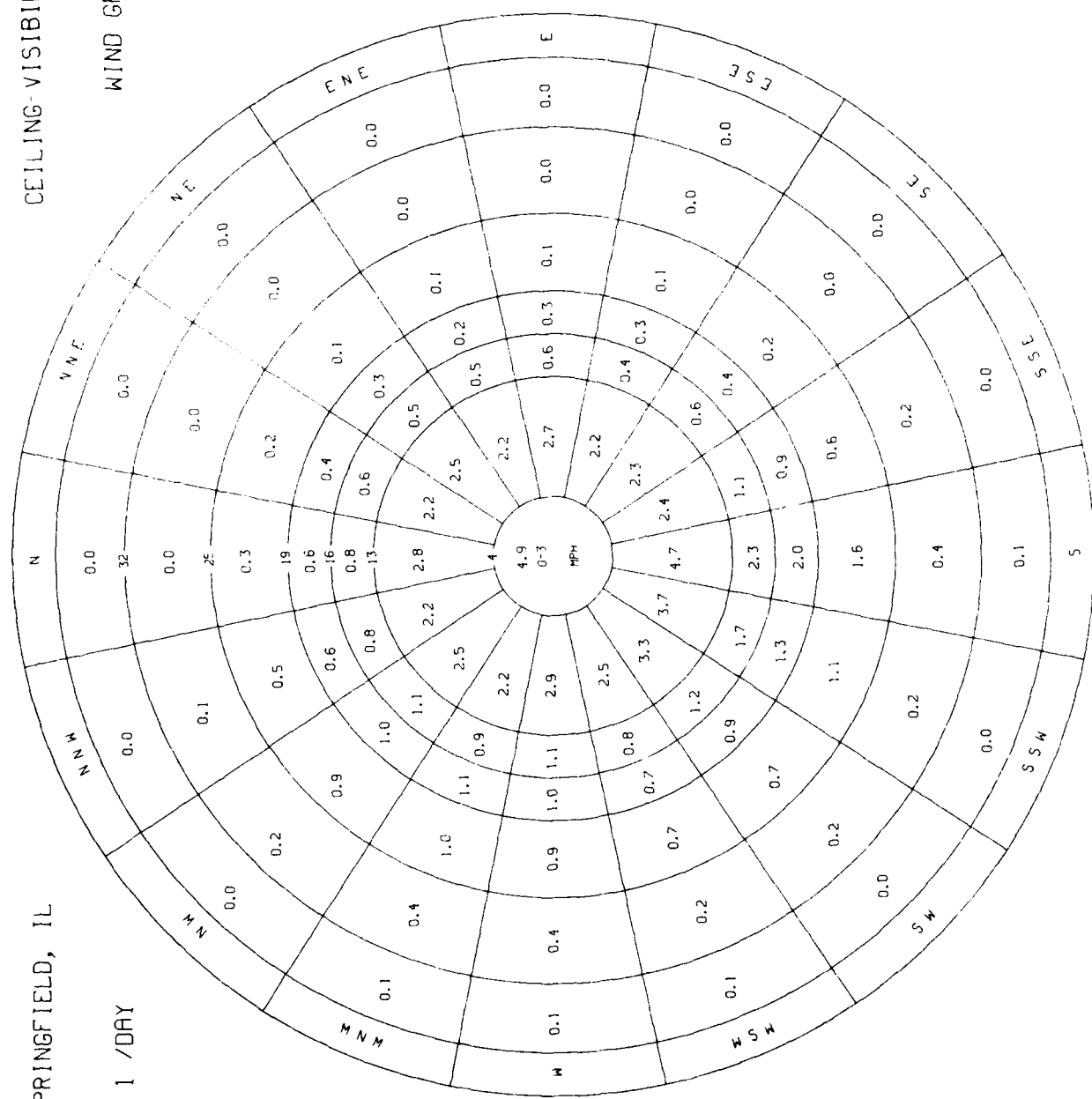


RFD ROCKFORD, IL

CLASS 7

CEILING-VISIBILITY
WIND GRAPH

SPI SPRINGFIELD, IL
CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SPI SPRINGFIELD, IL

CLASS 1 / DAY

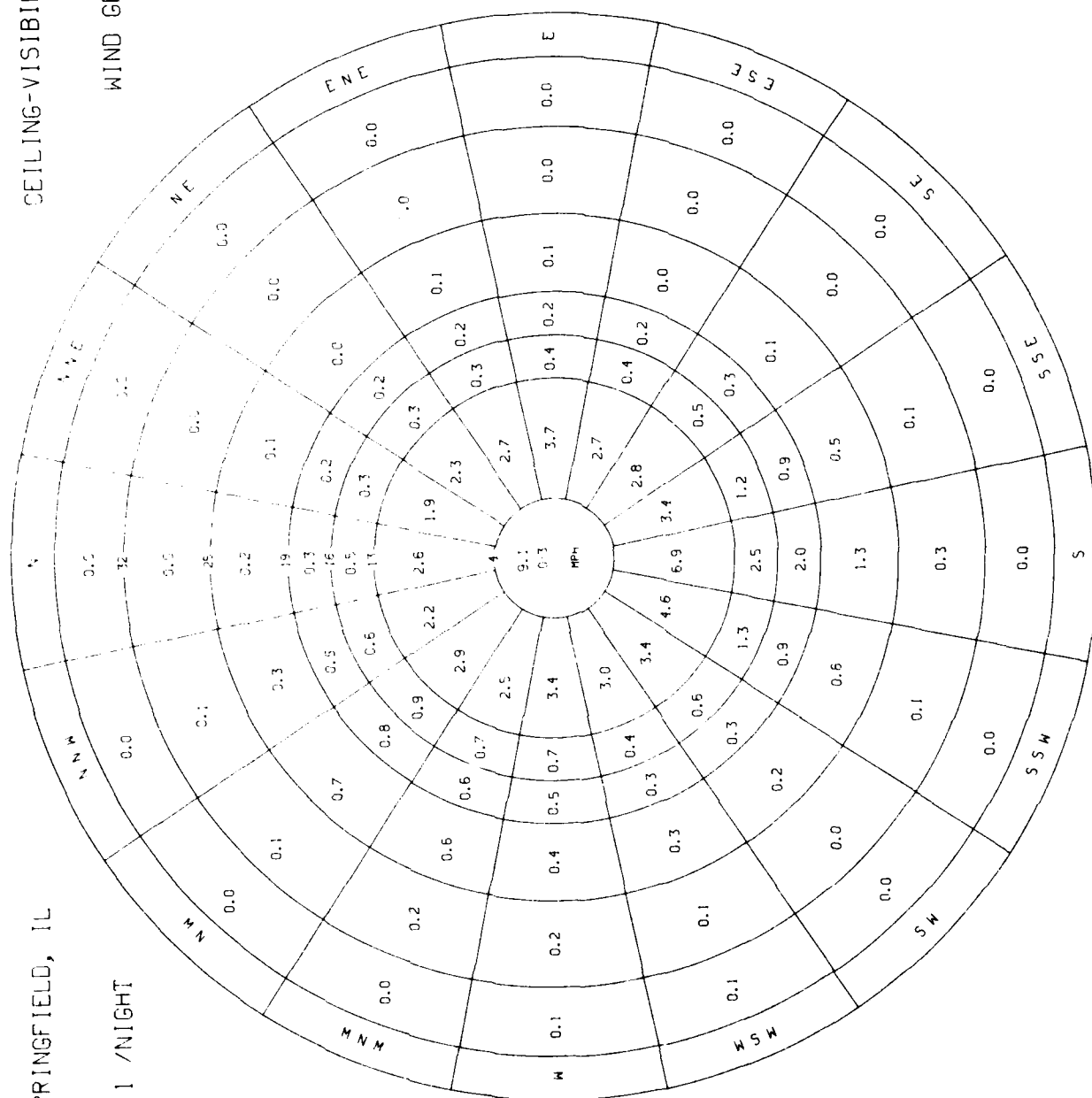
NO. OBS.: 42780

STATION NUMBER: 93822

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.3	.3	2.8	3.2	.8	1.0	.6	.7	.3	.3	.0	.0	.0	.0	4.8 5.5
NNE	.2	.3	2.2	2.6	.6	.7	.4	.4	.2	.2	.0	.0	.0	.0	3.6 4.2
NE	.4	.4	2.5	2.8	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.8 4.3
ENE	.3	.3	2.2	2.6	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.3 3.8
E	.4	.4	2.7	3.1	.6	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.0 4.6
ESE	.2	.2	2.2	2.5	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.2 3.7
SE	.2	.3	2.3	2.6	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	3.7 4.3
SSE	.2	.2	2.4	2.8	1.1	1.2	.9	1.0	.6	.7	.2	.2	.0	.0	5.4 6.1
S	.3	.4	4.7	5.4	2.3	2.7	2.0	2.3	1.6	1.8	.4	.5	.1	.1	11.5 13.1
SSW	.2	.3	3.7	4.3	1.7	1.9	1.3	1.5	1.1	1.3	.2	.3	.0	.0	8.3 9.6
SW	.3	.4	3.3	3.7	1.2	1.3	.9	1.1	.7	.8	.2	.3	.0	.1	6.7 7.7
WSW	.2	.2	2.5	2.8	.8	1.0	.7	.8	.7	.8	.2	.3	.1	.1	5.2 6.0
W	.3	.3	2.9	3.3	1.1	1.2	1.0	1.1	.9	1.0	.4	.4	.1	.1	6.6 7.5
WNW	.2	.2	2.2	2.5	.9	1.1	1.1	1.2	1.0	1.2	.4	.4	.1	.1	5.8 6.7
NW	.3	.3	2.5	2.9	1.1	1.2	1.0	1.1	.9	1.1	.2	.2	.0	.0	6.0 6.9
NNW	.2	.3	2.2	2.6	.8	.9	.6	.7	.5	.6	.1	.1	.0	.0	4.5 5.2
CALM	.7	.8													.7 .8
TOTAL	4.9	5.6	43.4	49.8	15.0	17.2	11.9	13.7	9.0	10.4	2.4	2.8	.5	.6	87.2 100

SPI SPRINGFIELD, IL

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 93822

NO. OBS.: 36121

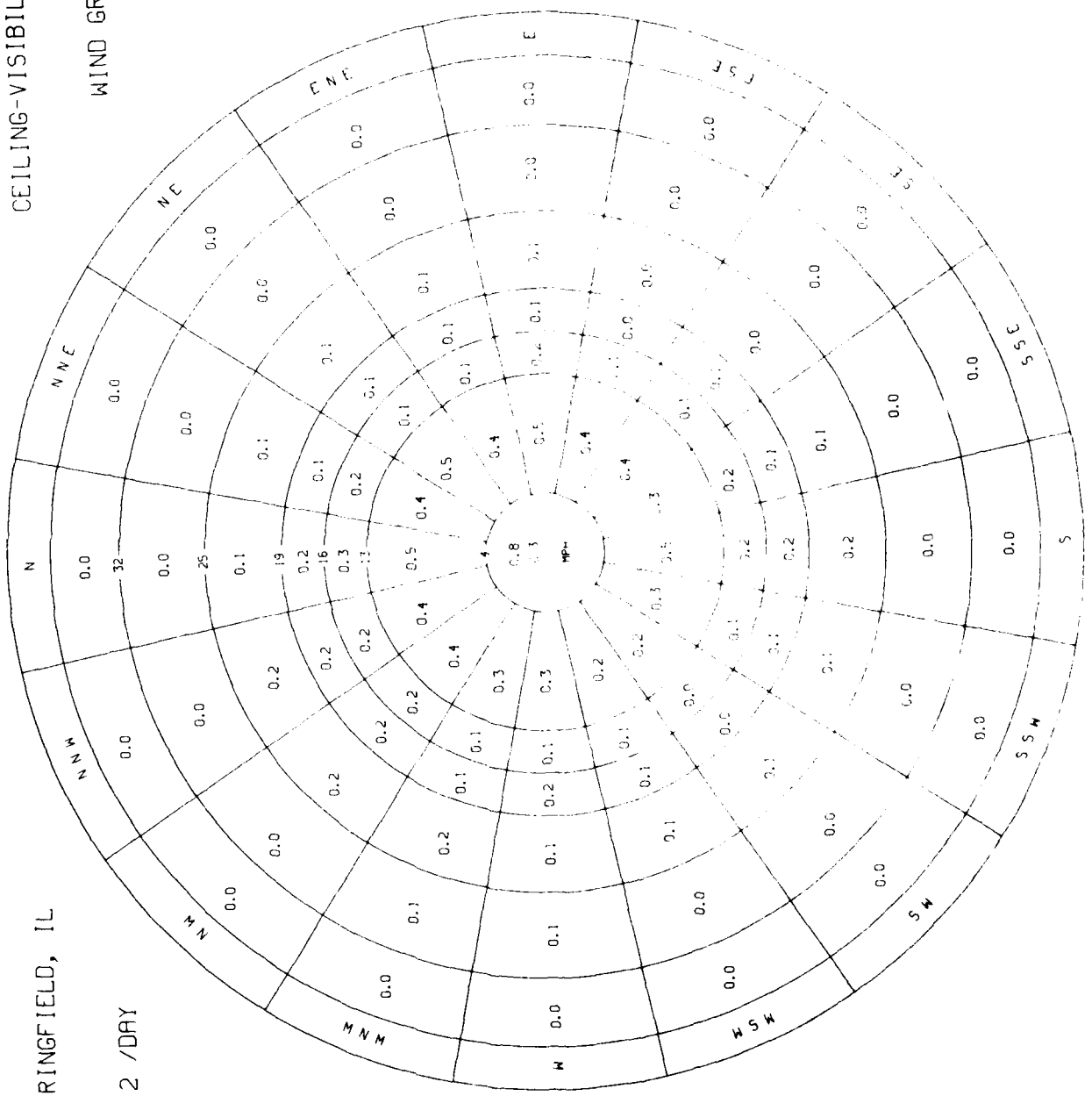
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.4	.5	2.6	3.0	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	4.1 4.8
NNE	.3	.3	1.9	2.2	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.7 3.1
NNE	.6	.7	2.3	2.6	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	3.3 3.8
ENE	.4	.5	2.7	3.1	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.7 4.3
E	.6	.7	3.7	4.3	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	5.0 5.8
ESE	.3	.4	2.7	3.1	.4	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.6 4.1
SE	.4	.5	2.8	3.2	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	4.2 4.8
SSE	.3	.3	3.4	4.0	1.2	1.4	.9	1.0	.5	.5	.1	.1	.0	.0	6.4 7.4
S	.6	.7	6.9	8.0	2.5	2.9	2.0	2.2	1.3	1.5	.3	.3	.0	.0	13.6 15.6
SSW	.5	.6	4.6	5.3	1.3	1.5	.9	1.1	.6	.7	.1	.1	.0	.0	8.0 9.2
SW	.6	.6	3.4	3.9	.6	.7	.3	.4	.2	.3	.0	.0	.0	.0	5.1 5.9
WSW	.5	.6	3.0	3.5	.4	.5	.3	.3	.3	.3	.1	.1	.1	.1	4.6 5.3
W	.5	.6	3.4	3.9	.7	.8	.5	.6	.4	.4	.2	.2	.1	.1	5.8 6.6
WNW	.3	.4	2.5	2.9	.7	.8	.6	.7	.6	.6	.2	.2	.0	.0	5.0 5.7
NW	.4	.4	2.9	3.3	.9	1.1	.8	.9	.7	.8	.1	.2	.0	.0	5.7 6.6
NNW	.3	.3	2.2	2.5	.6	.7	.5	.6	.3	.4	.1	.1	.0	.0	4.0 4.6
CALM	2.1	2.4													2.1 2.4
TOTAL	9.1	10.4	51.1	58.7	11.7	13.4	8.3	9.5	5.5	6.3	1.2	1.3	.3	.3	87.1 100

CEILING-VISIBILITY

WIND GRAPH

SPI SPRINGFIELD, IL

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 2 / DAY

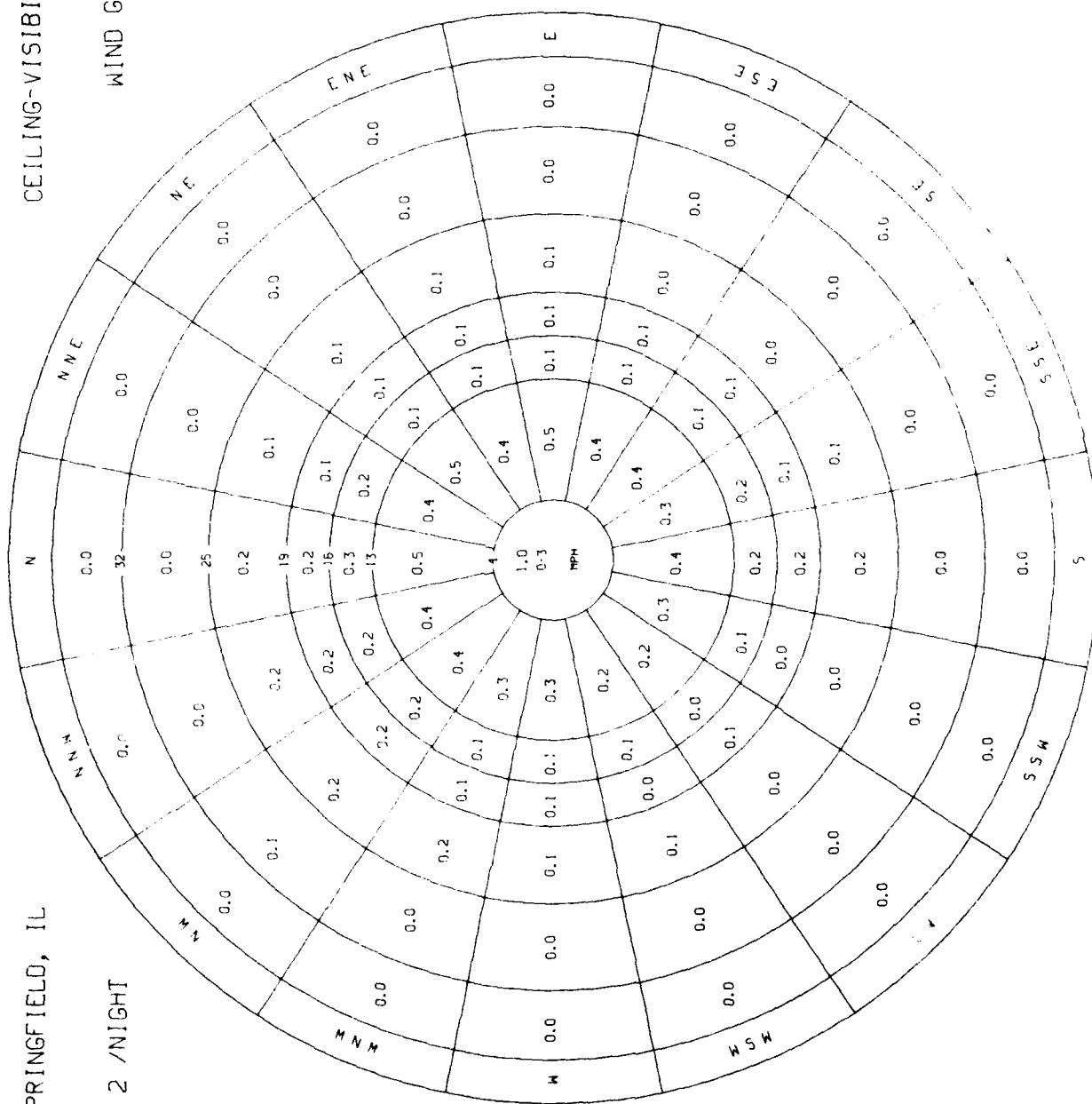
STATION NUMBER: 93822

NO. OBS.: 6267

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.4	.5	4.2	.3	2.0	.2	1.6	.1	1.1	.0	.3	.0	.0	1.2	9.7	13.1
NNE	.0	.4	.4	3.2	.2	1.4	.1	.9	.1	.9	.0	.1	.0	.0	.9	7.0	12.7
NE	.1	.5	.5	3.5	.1	1.0	.1	.8	.1	.7	.0	.1	.0	.0	.9	6.7	11.4
ENE	.1	.5	.4	3.1	.1	.7	.1	.7	.1	.5	.0	.2	.0	.0	.7	5.7	11.4
E	.1	.6	.5	4.1	.2	1.2	.1	.5	.1	.4	.0	.1	.0	.0	.9	6.9	10.4
ESE	.1	.4	.4	3.0	.1	1.1	.0	.4	.0	.3	.0	.1	.0	.0	.7	5.3	10.6
SE	.1	.4	.4	2.7	.1	.9	.1	.6	.0	.3	.0	.1	.0	.0	.7	5.1	11.0
SSE	.0	.3	.3	2.3	.2	1.2	.1	1.1	.1	.7	.0	.2	.0	.0	.7	5.8	13.2
S	.0	.1	.5	3.7	.2	1.3	.2	1.3	.2	1.2	.0	.3	.0	.1	1.0	8.0	13.8
SSW	.0	.3	.3	2.1	.1	.9	.1	.6	.1	.5	.0	.2	.0	.0	.6	4.6	12.7
SW	.0	.2	.2	1.5	.0	.4	.0	.3	.1	.4	.0	.1	.0	.0	.4	3.0	12.4
WSW	.0	.3	.2	1.5	.1	.6	.1	.5	.1	.5	.0	.2	.0	.1	.5	3.7	13.3
W	.0	.3	.3	2.1	.1	.9	.2	1.2	.1	1.1	.1	.4	.0	.2	.8	6.3	15.3
WNW	.0	.2	.3	2.1	.1	1.0	.1	1.0	.2	1.2	.1	.5	.0	.1	.8	6.2	15.3
NW	.0	.2	.4	3.0	.2	1.3	.2	1.2	.2	1.3	.0	.3	.0	.0	.9	7.3	14.1
NNW	.0	.3	.4	2.9	.2	1.5	.2	1.3	.2	1.3	.0	.2	.0	.0	1.0	7.5	13.8
CALM	.1	1.1													.1	1.1	
TOTAL	.8	6.5	5.8	45.3	2.2	17.6	1.8	14.1	1.6	12.5	.4	3.3	.1	.9	12.8	100	12.7

CEILING-VISIBILITY WIND GRAPH

SPI SPRINGFIELD, IL
CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 2 / NIGHT

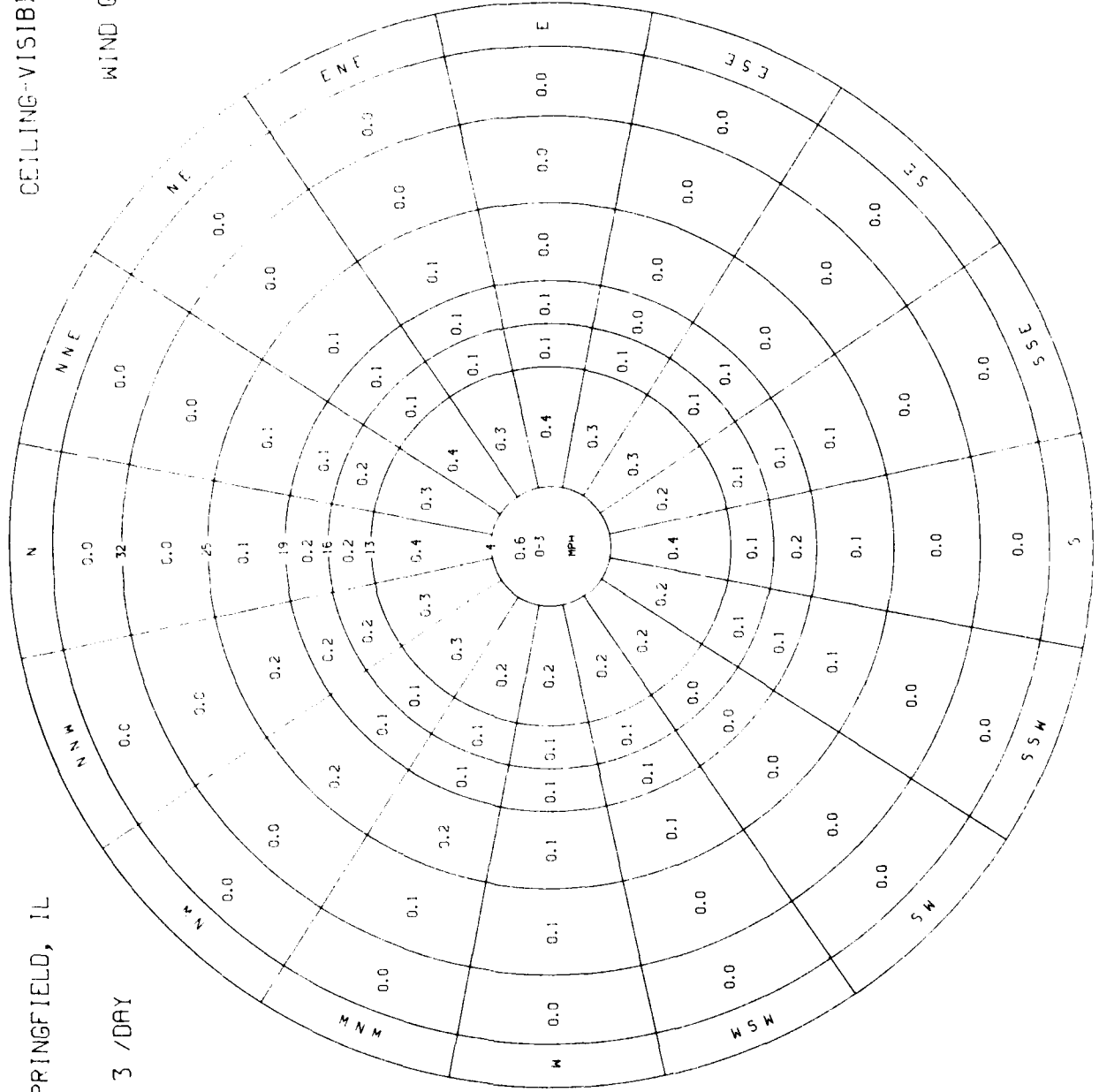
STATION NUMBER: 93822

NO. OBS.: 5357

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.4	.5	3.9	.3	2.0	.2	1.6	.2	1.4	.0	.1	.0	.0	1.2 9.4 13.2
NNE	.0	.2	.4	3.0	.2	1.3	.1	1.1	.1	.7	.0	.1	.0	.0	.8 6.4 12.7
NE	.1	.6	.5	3.8	.1	1.0	.1	.7	.1	.7	.0	.1	.0	.0	.9 7.0 11.4
ENE	.0	.2	.4	3.0	.1	.6	.1	.7	.1	.4	.0	.0	.0	.0	.7 5.0 11.2
E	.1	1.0	.5	4.2	.1	.7	.1	.8	.1	.5	.0	.1	.0	.0	.9 7.3 10.0
ESE	.1	.5	.4	3.0	.1	.6	.1	.5	.0	.3	.0	.0	.0	.0	.6 4.9 10.3
SE	.1	.6	.4	3.0	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.7 5.4 10.2
SSE	.0	.3	.3	2.6	.2	1.2	.1	.9	.1	.4	.0	.2	.0	.0	.7 5.7 12.4
S	.0	.4	.4	3.4	.2	1.4	.2	1.5	.2	1.3	.0	.4	.0	.1	1.1 8.3 13.7
SSW	.0	.3	.3	2.4	.1	.5	.0	.4	.0	.3	.0	.1	.0	.0	.5 3.9 11.2
SW	.1	.4	.2	1.6	.0	.3	.1	.4	.0	.2	.0	.1	.0	.1	.4 3.0 10.9
WSW	.0	.4	.2	1.4	.1	.5	.0	.4	.1	.4	.0	.1	.0	.0	.4 3.1 12.0
W	.1	.5	.3	2.5	.1	.9	.1	1.0	.1	.8	.0	.3	.0	.1	.8 6.0 13.3
WNW	.0	.3	.3	2.4	.1	1.0	.1	1.1	.2	1.2	.0	.4	.0	.1	.8 6.3 14.3
NW	.0	.3	.4	3.2	.2	1.6	.2	1.5	.2	1.2	.1	.5	.0	.1	1.1 8.3 14.3
NNW	.0	.3	.4	3.2	.2	1.8	.2	1.2	.2	1.4	.0	.4	.0	.0	1.1 8.3 14.0
CALM	.2	1.4													.2 1.4
TOTAL	1.0	8.0	6.0	46.4	2.1	16.5	1.8	14.2	1.5	11.4	.4	2.8	.1	.6	12.9 100 12.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

CLASS 3 / DAY

NO. OBS.: 5203

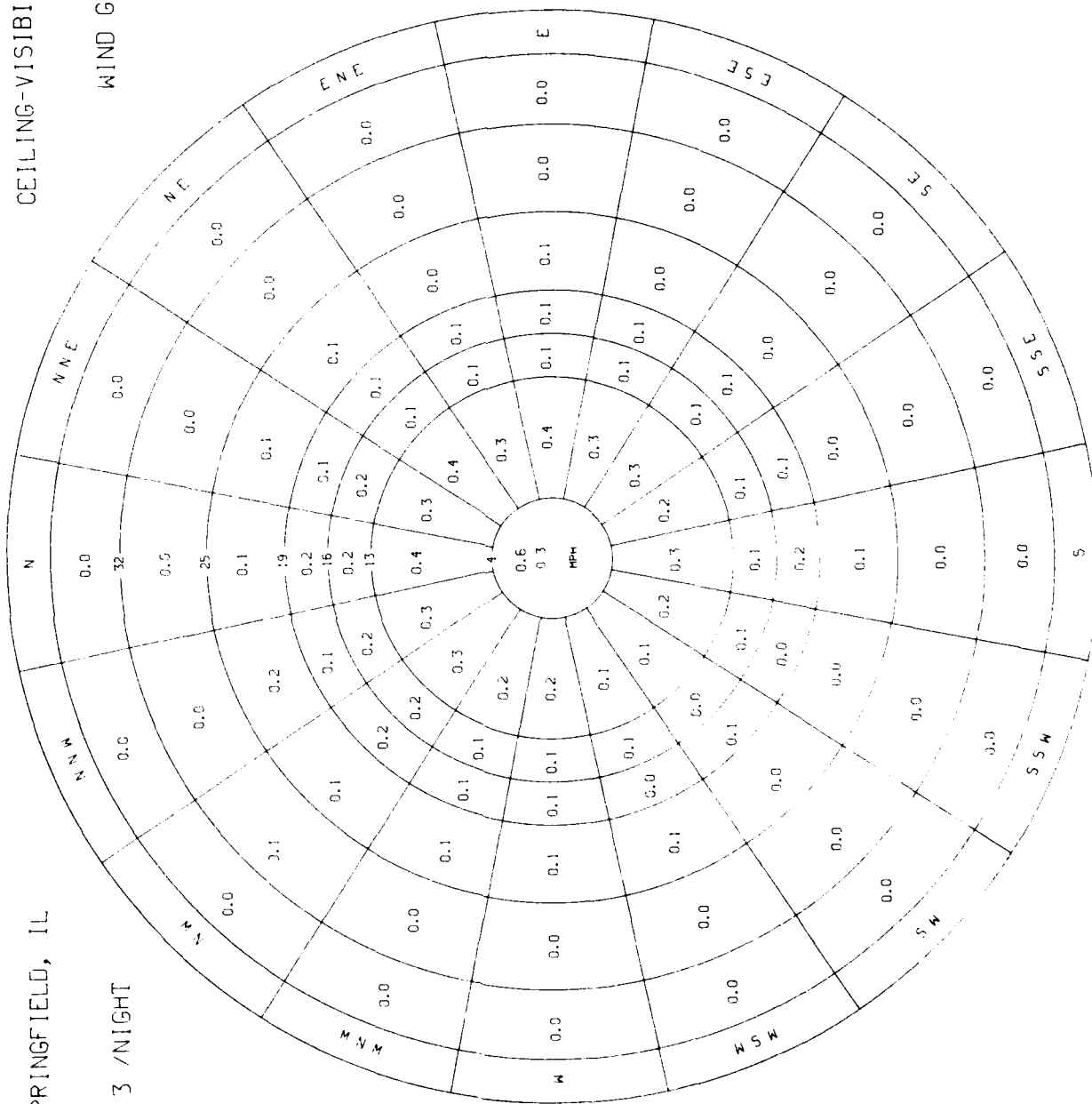
STATION NAME: SPI SPRINGFIELD, IL

STATION NUMBER: 93822

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.4	.1	4.0	.2	2.1	.2	1.6	.1	1.2	.0	.3	.0	.1	1.0	9.6	13.3
NNE	.0	.3	.3	3.0	.2	1.5	.1	1.1	.1	.9	.0	.1	.0	.0	.7	6.8	13.0
NNE	.1	.5	.4	3.3	.1	1.1	.1	.9	.1	.7	.0	.1	.0	.0	.7	6.7	11.7
NNE	.0	.4	.3	2.9	.1	.7	.1	.7	.1	.5	.0	.2	.0	.0	.6	5.4	11.6
NNE	.1	.5	.4	3.6	.1	1.1	.1	.6	.0	.4	.0	.1	.0	.0	.7	6.2	10.6
NNE	.0	.3	.3	2.7	.1	1.1	.0	.4	.0	.3	.0	.1	.0	.0	.5	4.8	10.9
NNE	.0	.3	.3	2.5	.1	.8	.1	.7	.0	.3	.0	.1	.0	.0	.5	4.7	11.4
NNE	.0	.3	.2	2.2	.1	1.2	.1	1.1	.1	.7	.0	.2	.0	.1	.6	5.9	13.5
NNE	.0	.1	.4	3.6	.1	1.3	.2	1.5	.1	1.3	.0	.3	.0	.1	.9	8.2	14.1
NNE	.0	.3	.2	1.9	.1	.9	.1	.7	.1	.6	.0	.2	.0	.0	.5	4.6	13.2
NNE	.0	.1	.2	1.6	.0	.4	.0	.3	.0	.4	.0	.2	.0	.1	.3	2.1	13.0
NNE	.0	.3	.2	1.5	.1	.7	.1	.6	.1	.6	.0	.2	.0	.1	.4	2.9	13.8
NNE	.0	.2	.2	2.2	.1	1.0	.1	1.4	.1	1.4	.1	.5	.0	.3	.7	1.0	15.0
NNE	.0	.1	.2	2.0	.1	1.2	.1	1.2	.2	1.4	.1	.5	.0	.1	.5	6.5	16.0
NNE	.0	.1	.3	3.0	.1	1.4	.1	1.4	.2	1.4	.0	.3	.0	.1	.8	1.0	13.4
NNE	.1	.2	.3	3.0	.1	.6	.2	1.5	.2	1.4	.1	.2	.0	.1	.5	1.9	14.3
NNE	.0	.5	.1	1.3	.1	.5	.1	.5	.1	.5	.1	.5	.1	.5	.1	1.0	14.1
NNE	.0	.5	.1	1.3	.1	.5	.1	.5	.1	.5	.1	.5	.1	.5	.1	1.0	14.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

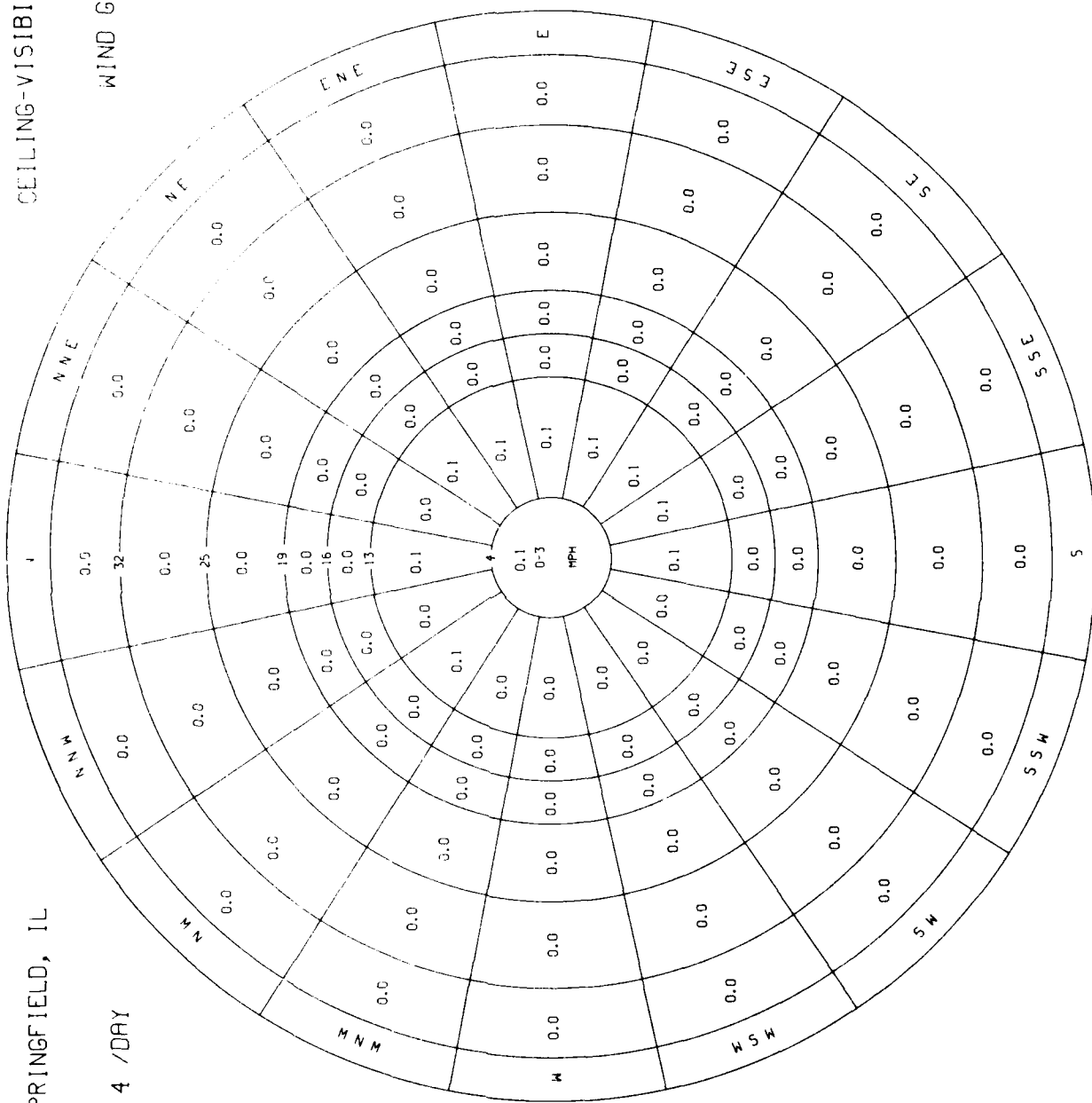
CLASS 3 / NIGHT

STATION NUMBER: 93822

NO. OBS.: 4149

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.4	3.7	.2	2.3	.2	1.8	.1	1.5	.0	.2	.0	.0	1.0	9.8	13.7
NNE	.0	.2	.3	3.0	.2	1.5	.1	1.2	.1	.8	.0	.1	.0	.0	.7	6.9	13.1
NE	.0	.5	.4	3.6	.1	1.0	.1	.8	.1	.7	.0	.2	.0	.0	.7	6.8	11.8
ENE	.0	.2	.3	2.6	.1	.6	.1	.8	.0	.4	.0	.0	.0	.0	.5	4.6	11.9
E	.1	.9	.4	3.7	.1	.8	.1	.8	.1	.6	.0	.1	.0	.0	.7	6.9	10.4
ESE	.0	.4	.3	2.6	.1	.5	.1	.6	.0	.3	.0	.0	.0	.0	.4	4.5	10.8
SE	.1	.5	.3	2.6	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.5	5.1	10.7
SSE	.0	.3	.2	2.3	.1	1.3	.1	1.0	.0	.4	.0	.2	.0	.0	.6	5.5	12.7
S	.0	.3	.3	2.9	.1	1.4	.2	1.5	.1	1.4	.0	.5	.0	.1	.8	8.1	14.5
SSW	.0	.2	.2	2.0	.1	.5	.0	.4	.0	.4	.0	.1	.0	.0	.4	3.7	12.3
SW	.0	.2	.1	1.4	.0	.3	.1	.5	.0	.3	.0	.1	.0	.1	.3	2.8	12.6
WSW	.0	.1	.1	1.1	.1	.6	.0	.4	.1	.5	.0	.1	.0	.0	.3	3.0	14.0
W	.0	.3	.2	2.4	.1	1.1	.1	1.2	.1	.9	.0	.4	.0	.1	.6	6.4	14.4
WNW	.0	.2	.2	2.4	.1	1.1	.1	1.3	.1	1.5	.0	.5	.0	.0	.7	7.1	15.0
NW	.0	.1	.3	3.4	.2	2.0	.2	1.8	.1	1.4	.1	.7	.0	.1	.9	9.3	14.8
NNW	.0	.2	.3	3.0	.2	2.1	.1	1.3	.2	1.7	.0	.4	.0	.0	.9	8.7	14.6
CALM	.1	.9													.1	.9	
TOTAL	.6	5.9	4.3	42.6	1.8	18.1	1.6	16.2	1.3	13.1	.3	3.5	.1	.6	10.0	100	13.1

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 4 / DAY

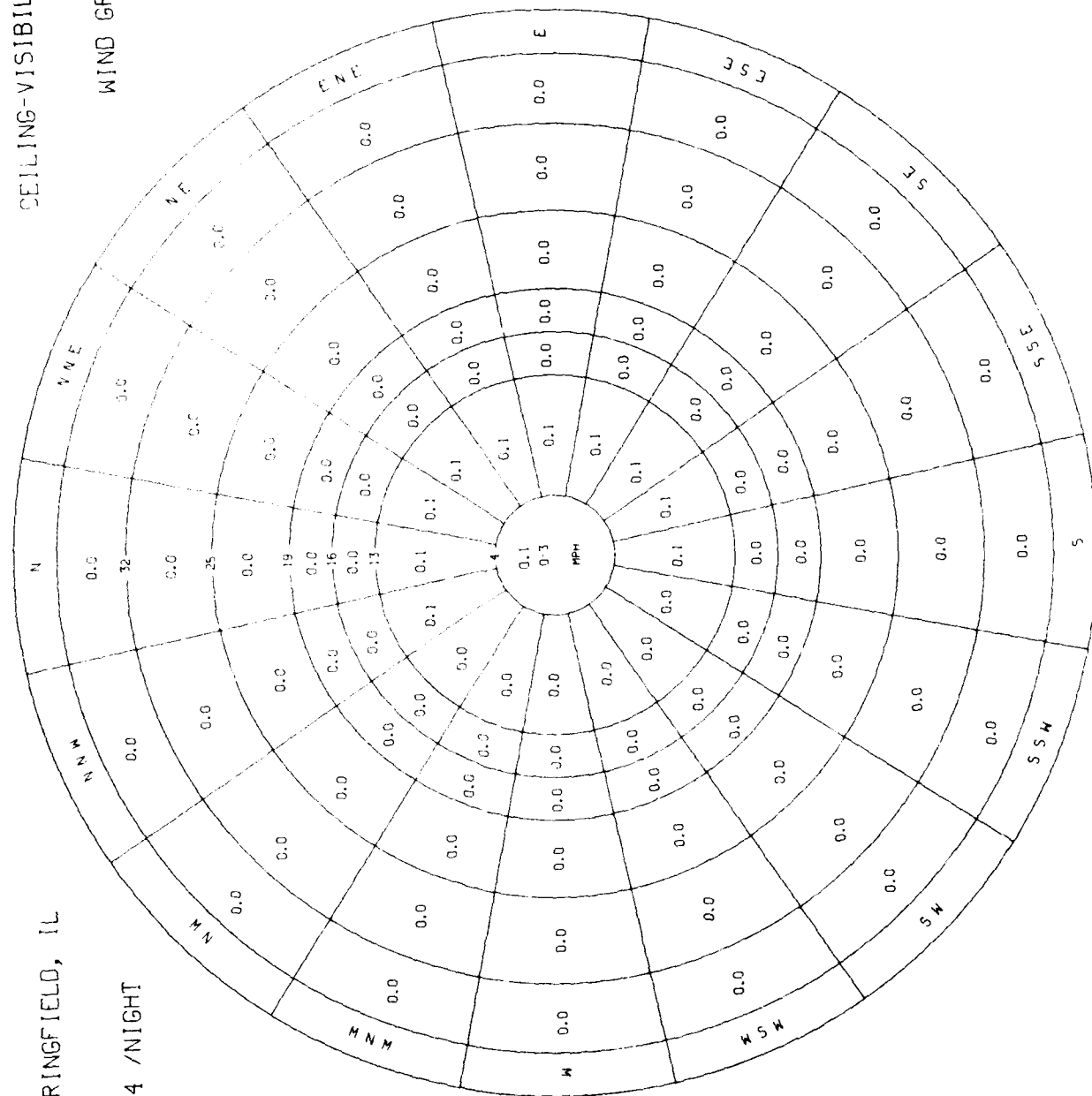
STATION NUMBER: 93822

NO. OBS.: 742

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.1	5.1	.0	2.4	.0	2.3	.0	.8	.0	.0	.0	.0	.2 11.2
NNE	.0	.4	.0	3.1	.0	1.2	.0	.4	.0	1.2	.0	.1	.0	.1	.1 6.6
NE	.0	.5	.1	4.0	.0	.9	.0	.4	.0	.9	.0	.0	.0	.0	.1 6.9
ENE	.0	.9	.1	4.7	.0	.9	.0	1.1	.0	.7	.0	.3	.0	.0	.1 8.6
E	.0	.7	.1	6.6	.0	2.2	.0	.5	.0	.1	.0	.1	.0	.0	.2 10.2
ESE	.0	.7	.1	4.0	.0	1.6	.0	.3	.0	.3	.0	.1	.0	.0	.1 7.0
SE	.0	.5	.1	3.5	.0	1.2	.0	.4	.0	.5	.0	.0	.0	.0	.1 6.2
SSE	.0	.3	.1	3.4	.0	1.3	.0	1.3	.0	.5	.0	.0	.0	.0	.1 6.9
S	.0	.0	.1	4.4	.0	1.1	.0	.7	.0	.8	.0	.0	.0	.1	.1 7.1
SSW	.0	.3	.0	2.3	.0	.4	.0	.1	.0	.0	.0	.1	.0	.0	.0 3.2
SW	.0	.4	.0	.8	.0	.4	.0	.4	.0	.3	.0	.0	.0	.0	.0 2.3
WSW	.0	.1	.0	1.6	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.0 2.2
W	.0	.5	.0	1.3	.0	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0 2.8
WNW	.0	.3	.0	2.6	.0	.5	.0	.5	.0	.1	.0	.1	.0	.1	.1 4.3
NW	.0	.0	.1	3.6	.0	1.1	.0	.3	.0	.7	.0	.3	.0	.1	.1 6.1
NNW	.0	.5	.0	2.6	.0	1.8	.0	.8	.0	1.1	.0	.3	.0	.0	.1 7.0
CALM	.0	1.3													.0 1.3
TOTAL	.1	8.1	.8	53.8	.3	17.8	.2	10.1	.1	8.1	.0	1.5	.0	.7	1.5 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 4 / NIGHT

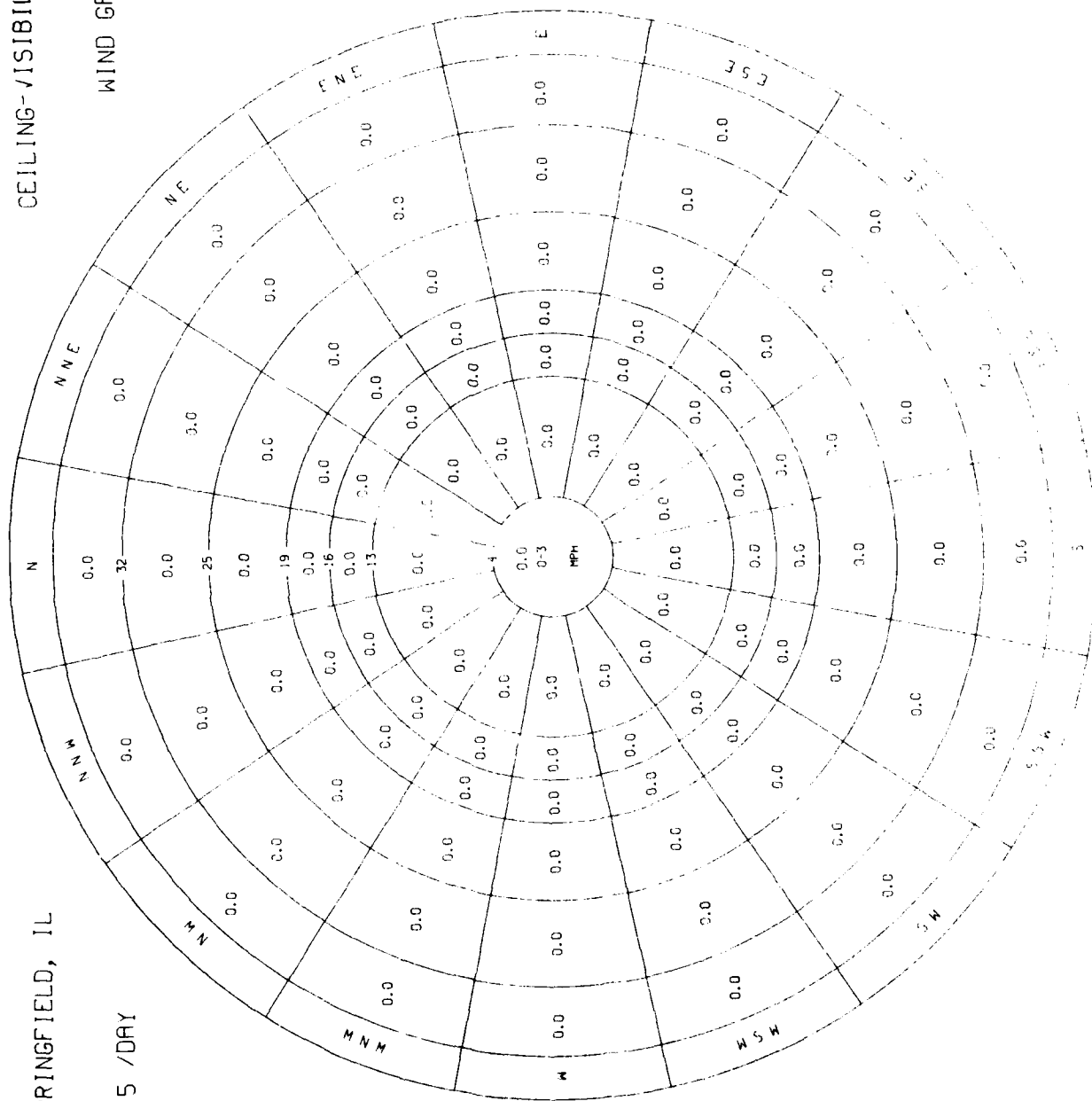
STATION NUMBER: 93822

NO. OBS.: 719

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.6	.1	5.6	.0	1.4	.0	1.1	.0	1.1	.0	.0	.0	.1	.2	9.9	12.0
NNE	.0	.3	.1	3.6	.0	.8	.0	.8	.0	.3	.0	.0	.0	.0	.1	5.8	10.7
NE	.0	.6	.1	4.5	.0	1.5	.0	.7	.0	1.0	.0	.0	.0	.0	.1	8.2	11.2
ENE	.0	.4	.1	5.0	.0	1.4	.0	.3	.0	.4	.0	.0	.0	.0	.1	7.5	10.2
E	.0	1.0	.1	4.7	.0	.6	.0	.7	.0	.4	.0	.1	.0	.0	.1	7.5	10.0
ESE	.0	.6	.1	3.2	.0	1.1	.0	.6	.0	.3	.0	.0	.0	.0	.1	5.7	10.2
SE	.0	.6	.1	4.2	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.1	6.5	10.2
SSE	.0	.1	.1	3.9	.0	1.1	.0	1.0	.0	1.0	.0	.0	.0	.0	.1	7.1	12.4
S	.0	.7	.1	4.6	.0	1.5	.0	1.7	.0	1.3	.0	.0	.0	.0	.2	9.7	12.2
SSW	.0	.1	.0	2.5	.0	.6	.0	.1	.0	.1	.0	.0	.0	.0	.1	3.5	9.5
SW	.0	.0	.0	1.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	9.0
WSW	.0	.3	.0	1.3	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.9	9.1
W	.0	.6	.0	2.5	.0	.3	.0	.1	.0	.3	.0	.3	.0	.1	.1	4.2	10.7
WNW	.0	.4	.0	2.5	.0	.8	.0	.3	.0	.4	.0	.0	.0	.1	.1	4.6	11.4
NW	.0	.3	.0	2.8	.0	.6	.0	.8	.0	1.1	.0	.0	.0	.1	.1	5.7	12.8
NNW	.0	.4	.1	4.5	.0	1.1	.0	1.4	.0	.7	.0	.6	.0	.0	.1	8.6	12.8
CALM	.0	1.8												.0	.0	1.8	
TOTAL	.1	8.6	1.0	56.6	.3	14.6	.2	10.3	.1	8.3	.0	1.0	.0	.6	1.7	100	11.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 5 / DAY

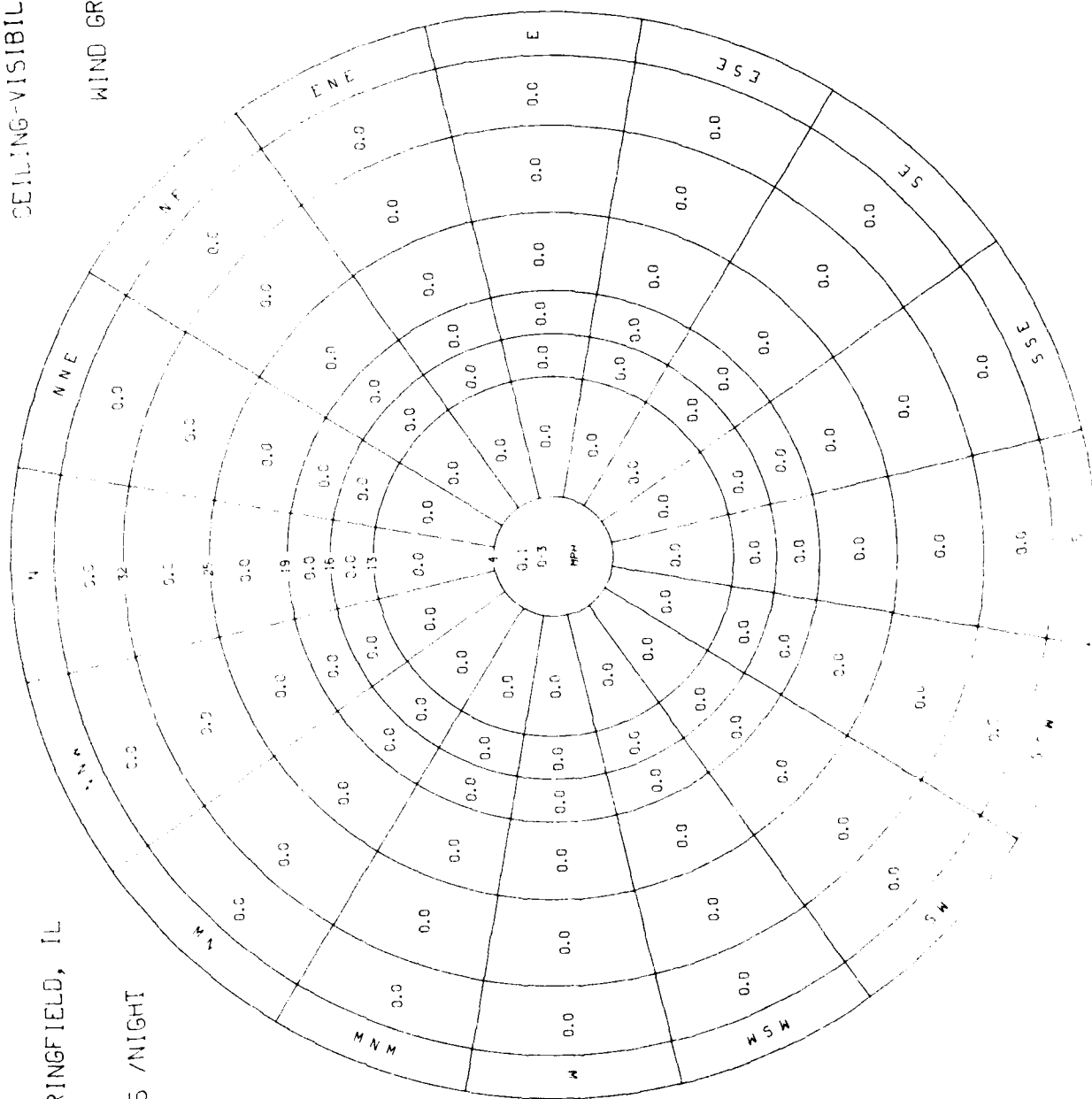
STATION NUMBER: 93822

NO. OBS.: 161

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	O						
N	.0	.6	.0	6.2	.0	1.2	.0	.0	.0	.6	.0	.0	.0	.0	.0	8.7	8.8					
NNE	.0	1.2	.0	5.6	.0	1.2	.0	.0	.0	.0	.0	1.2	.0	.0	.0	9.3	10.9					
NE	.0	1.2	.0	5.6	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.0	8.7	9.0					
ENE	.0	.0	.0	4.3	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	5.6	11.2					
E	.0	.6	.0	7.5	.0	2.5	.0	.0	.0	.6	.0	.0	.0	.0	.0	11.2	10.0					
ESE	.0	.6	.0	5.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	9.0					
SE	.0	1.2	.0	8.1	.0	2.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	12.4	9.2					
SSE	.0	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	2.5	10.7					
S	.0	.0	.0	3.7	.0	2.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	7.5	11.5					
SSW	.0	.6	.0	3.1	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.6	.0	6.8	13.3					
SW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.3					
WSW	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	11.0					
W	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.9	17.0					
WNW	.0	1.2	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.1					
NW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	3.1	12.4					
NNW	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.0	8.7					
CALM	.0	2.5													.0	2.5						
TOTAL	.0	10.6	.2	64.0	.0	13.7	.0	4.3	.0	3.7	.0	2.5	.0	1.2	.3	10.0	9.7					

CEILING-VISIBILITY

WIND GRAPH



SPI SPRINGFIELD, IL

CLASS 5 / NIGHT

CELESTIAL VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SPI SPRINGFIELD, IL

CLASS 5 / NIGHT

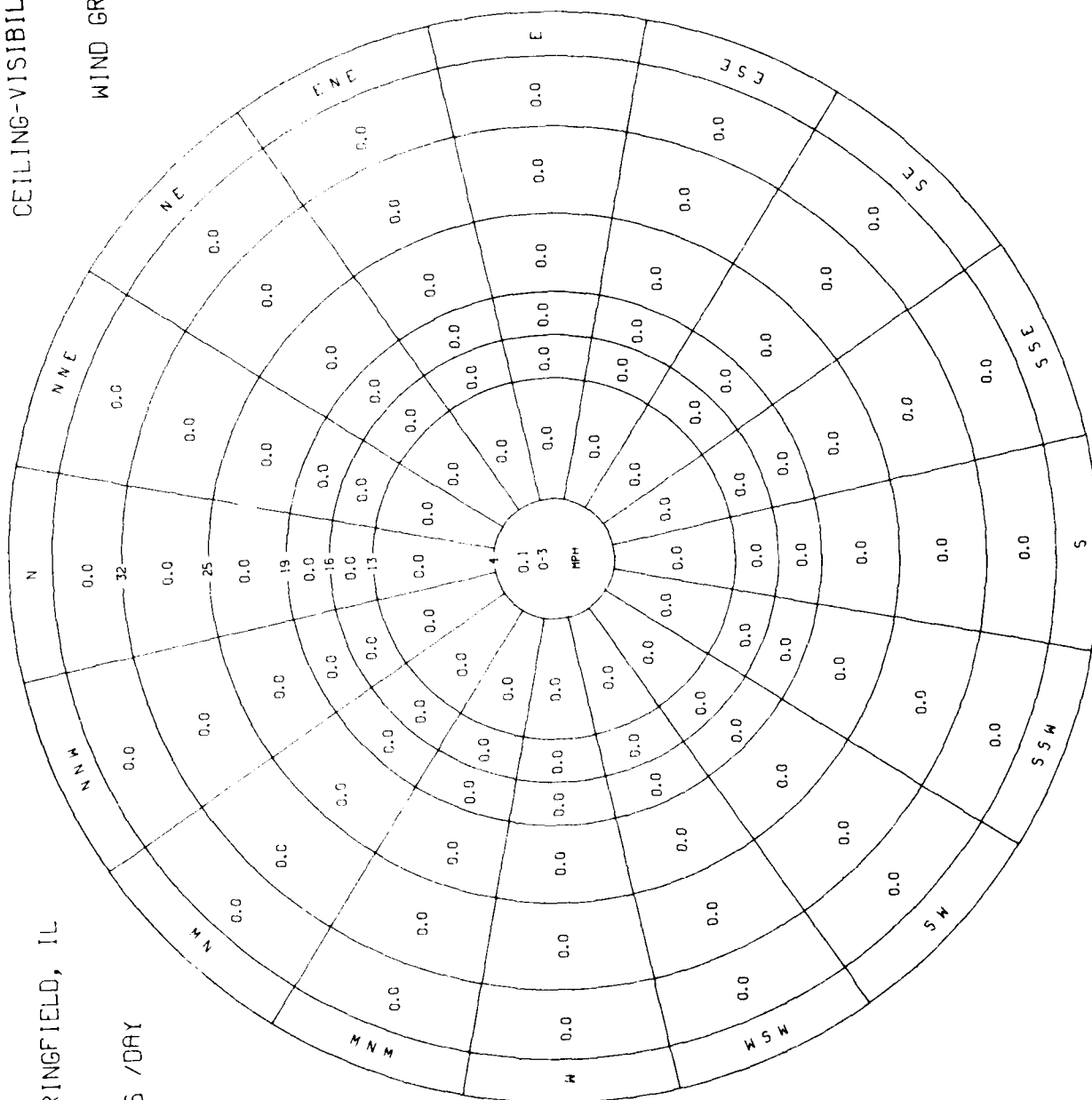
NO. OBS.: 226

STATION NUMBER: 97822

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.3	.0	4.0	.0	.4	.0	.4	.0	1.3	.0	.0	.0	.0	7.5
NNE	.0	.0	.0	2.7	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	3.5
NE	.0	1.3	.0	6.2	.0	.4	.0	.0	.0	.9	.0	.0	.0	.0	8.8
ENE	.0	.0	.0	4.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	5.3
E	.0	1.8	.0	8.0	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.1	11.5
ESE	.0	1.8	.0	6.2	.0	.9	.0	.4	.0	.0	.0	.0	.0	.1	9.3
SE	.0	.9	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3
SSE	.0	.4	.0	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	4.0
S	.0	.9	.0	5.8	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	8.4
SSW	.0	1.8	.0	1.8	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	4.4
SW	.0	2.2	.0	3.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	5.8
WSW	.0	1.8	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4
W	.0	2.2	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3
WNW	.0	.4	.0	1.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	3.1
NW	.0	1.8	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3
NNW	.0	.4	.0	3.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	4.4
CALM	.0	3.5													3.5
TOTAL	.1	22.6	.3	62.8	.0	6.6	.0	4.9	.0	2.7	.0	.0	.0	.4	8.0

CEILING-VISIBILITY

WIND GRAPH



SPI SPRINGFIELD, IL

CLASS 6 / DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SP1 SPRINGFIELD, IL

CLASS 6 / DAY

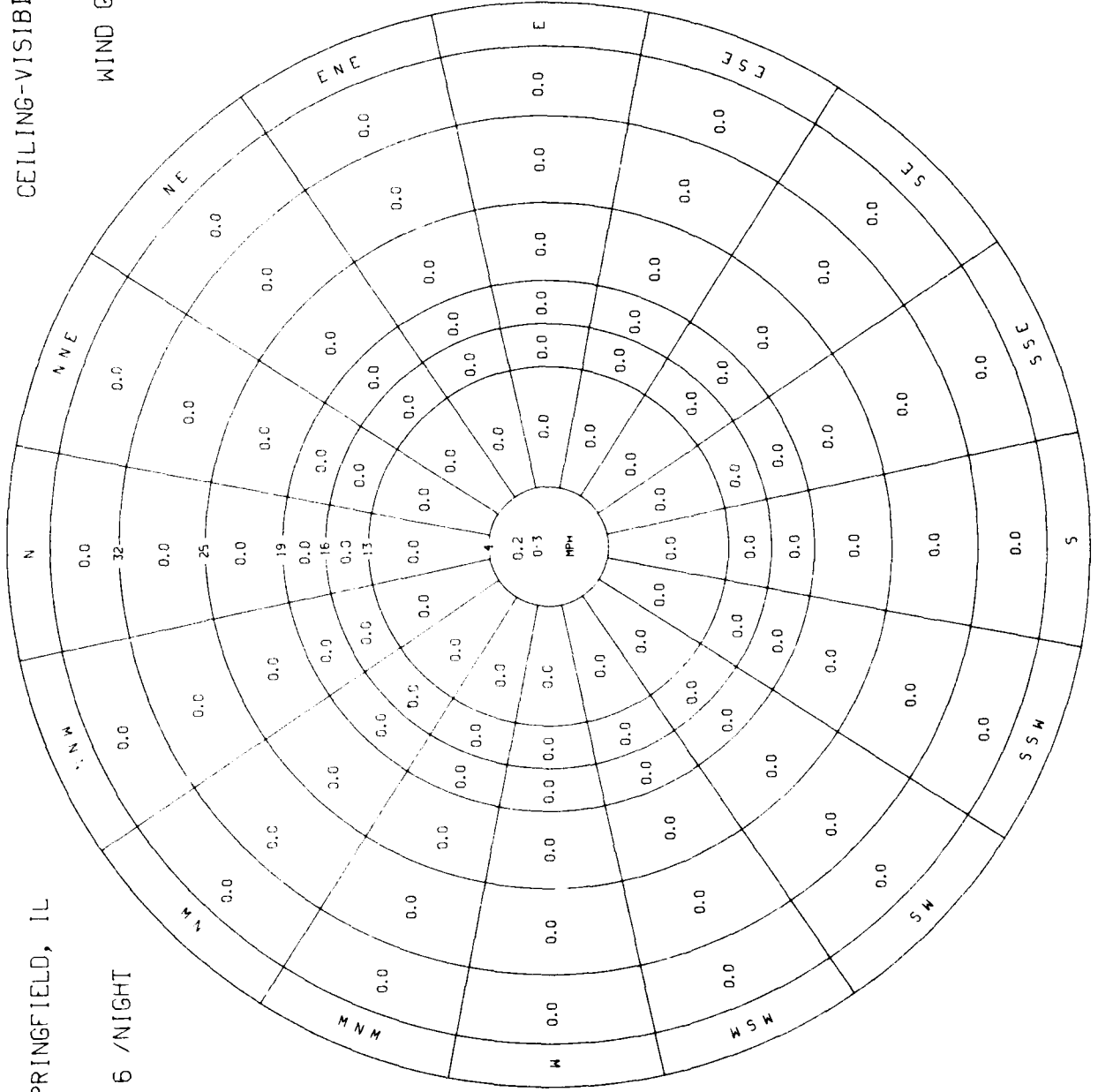
NO. OBS.: 161

STATION NUMBER: 93822

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	3.1	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	4.3	10.5
NNE	.0	1.9	.0	9.3	.0	1.2	.0	.0	.0	.6	.0	.6	.0	.0	.0	13.7	8.9
NE	.0	.6	.0	5.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	7.1
ENE	.0	1.9	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.0
E	.0	2.5	.0	5.6	.0	.6	.0	.0	.0	1.2	.0	.0	.0	.0	.0	9.9	8.1
ESE	.0	2.5	.0	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	7.4
SE	.0	1.9	.0	2.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.0
SSE	.0	.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.2
S	.0	1.2	.0	3.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	9.4
SSW	.0	.6	.0	5.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	6.9
SW	.0	1.2	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	5.2
WSW	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.0
W	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	4.4
WNW	.0	.6	.0	3.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	4.3	8.1
NW	.0	2.5	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	3.9
NNW	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	7.0
CALM	.0	6.2													.0	6.2	
TOTAL	.1	29.8	.2	59.6	.0	6.2	.0	.6	.0	3.1	.0	.6	.0	.0	.3	100	6.8

CEILING-VISIBILITY

WIND GRAPH



SPI SPRINGFIELD, IL

CLASS 6 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 93822

NO. OBS.: 263

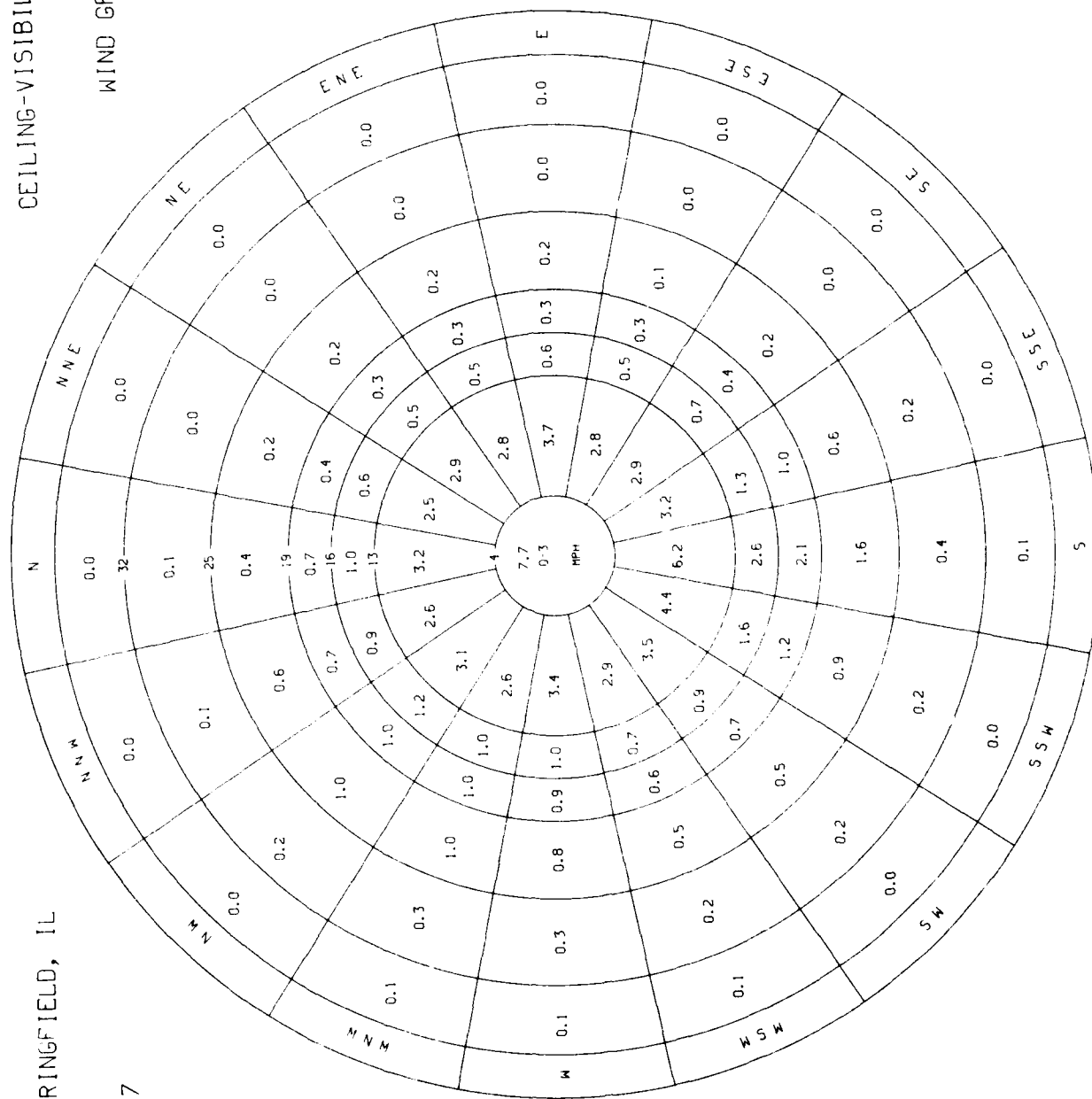
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.1	.0	2.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	4.2
NNE	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.9
NE	.0	1.9	.0	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	5.3
ENE	.0	1.1	.0	3.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	4.6
E	.0	1.9	.0	7.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.1
ESE	.0	.4	.0	5.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	6.8
SE	.0	1.9	.0	5.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	7.6
SSE	.0	.8	.0	3.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	5.7
S	.0	.0	.0	5.3	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	7.6
SSW	.0	.8	.0	7.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	8.7
SW	.0	3.8	.0	3.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	7.6
WSW	.0	2.7	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.0
W	.0	1.5	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7
WNW	.0	.4	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7
NW	.0	1.1	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7
NNW	.0	1.1	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2
CALM	.0	7.6												.0	7.6
TOTAL	.2	28.1	.4	64.6	.0	4.6	.0	2.3	.0	.4	.0	.0	.0	.6	100
															6.4

CEILING-VISIBILITY

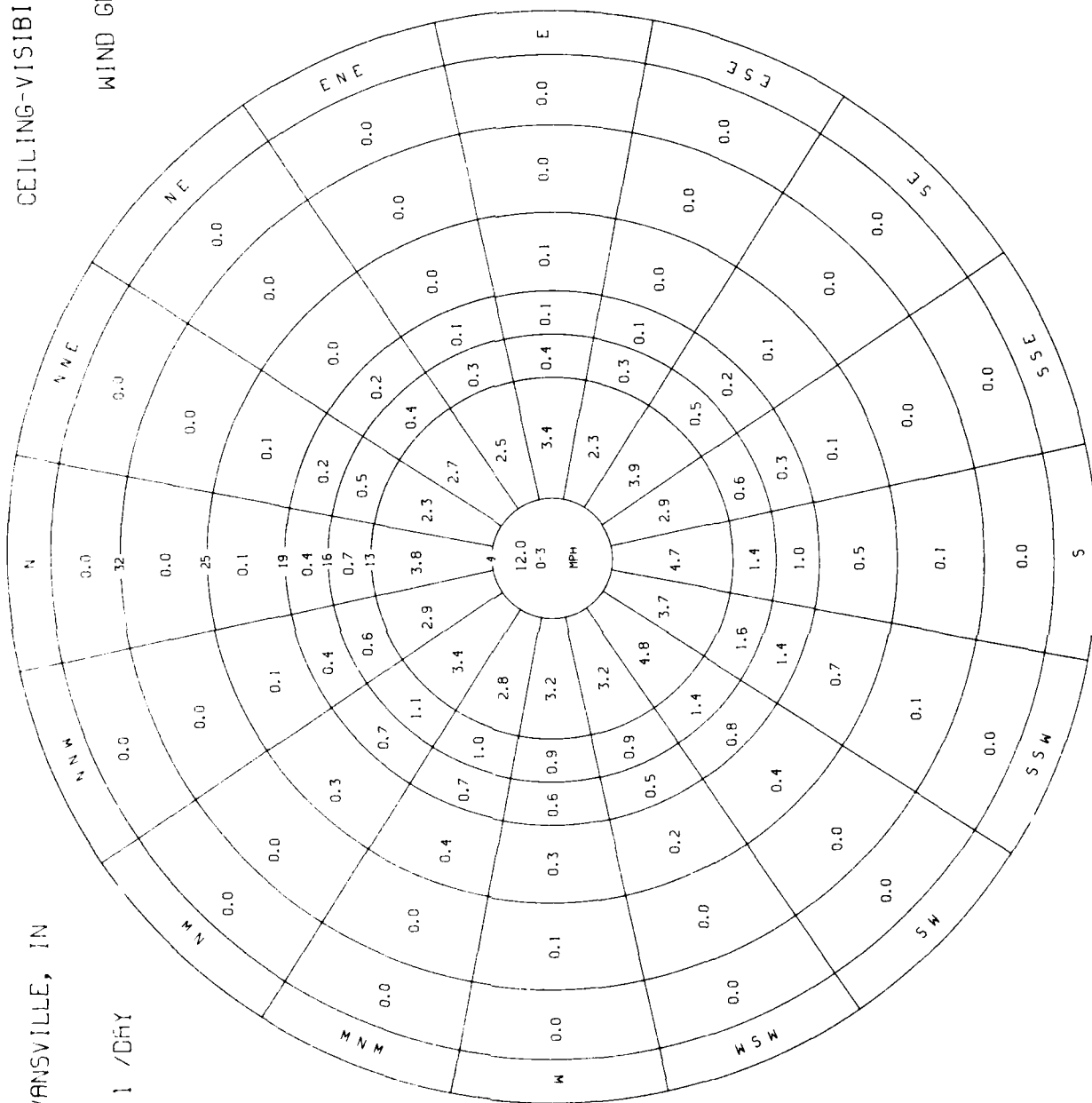
WIND GRAPH

SPI SPRINGFIELD, IL

CLASS 7



CEILING-VISIBILITY
WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EVV EVANSVILLE, IN

CLASS 1 / DAY

NO. OBS.: 42866

STATION NUMBER: 93817

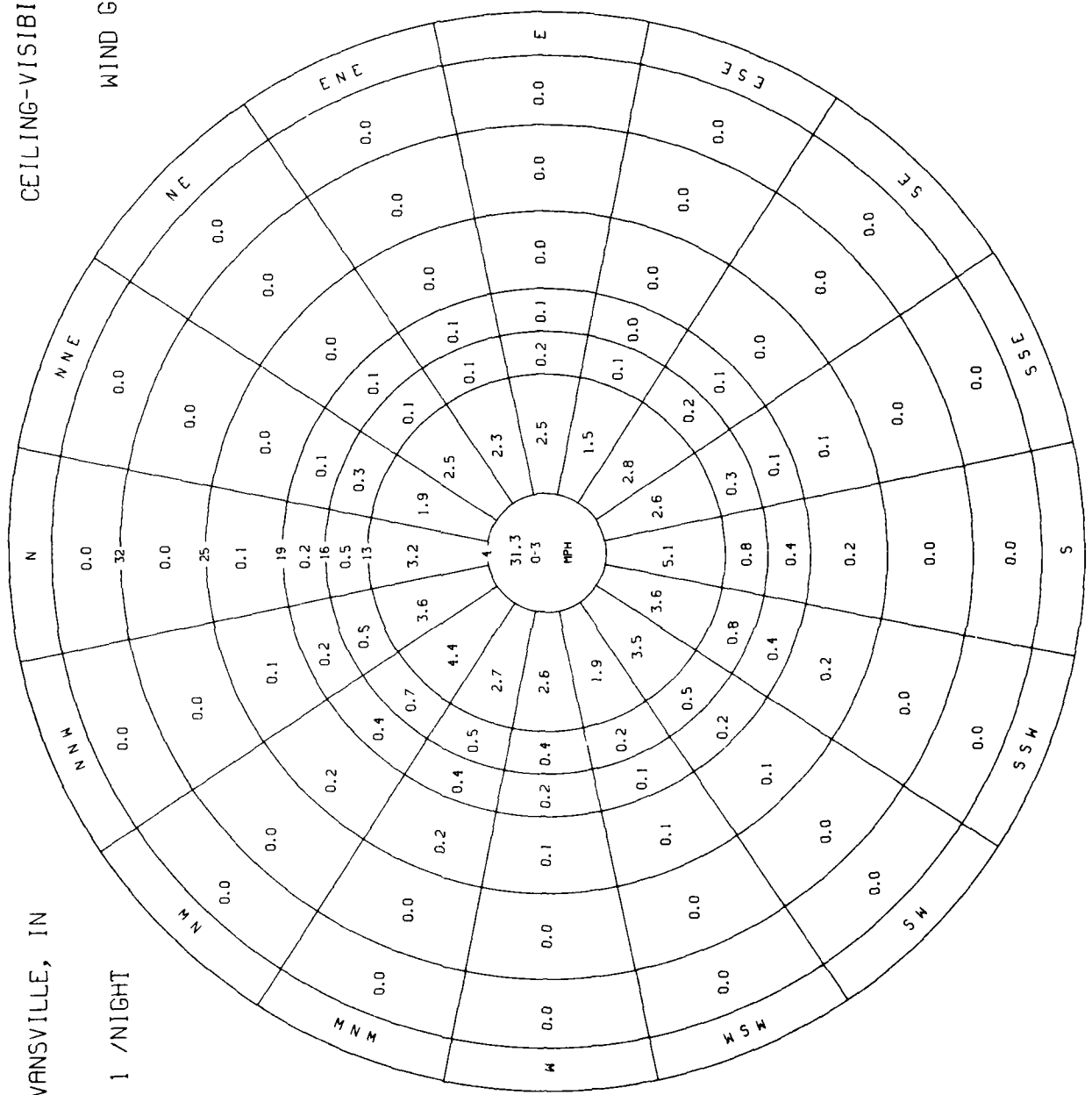
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.6	.7	3.8	4.2	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	5.6	6.3	9.2
NNE	.4	.4	2.3	2.5	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	3.4	3.8	9.4
NE	.6	.6	2.7	3.1	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.9	4.3	8.2
ENE	.5	.5	2.5	2.8	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	3.4	3.8	8.1
E	.8	.9	3.4	3.9	.4	.5	.1	.1	.1	.1	.0	.0	.0	.0	4.9	5.5	7.8
ESE	.5	.5	2.3	2.6	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.6	7.9
SE	.7	.8	3.9	4.4	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	5.4	6.1	8.3
SSE	.4	.4	2.9	3.3	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	4.4	5.0	9.8
S	.5	.6	4.7	5.3	1.4	1.6	1.0	1.1	.5	.6	.1	.1	.0	.0	8.2	9.2	10.9
SSW	.3	.4	3.7	4.2	1.6	1.8	1.4	1.5	.7	.8	.1	.1	.0	.0	7.9	8.9	12.6
SW	.5	.6	4.8	5.4	1.4	1.6	.8	.9	.4	.4	.0	.1	.0	.0	7.9	8.9	10.7
WSW	.3	.4	3.2	3.6	.9	1.0	.5	.5	.2	.2	.0	.0	.0	.0	5.1	5.7	10.3
W	.5	.6	3.2	3.6	.9	1.0	.6	.6	.3	.3	.1	.1	.0	.0	5.5	6.2	10.4
WNW	.5	.5	2.8	3.2	1.0	1.2	.7	.8	.4	.5	.0	.1	.0	.0	5.5	6.2	11.2
NW	.9	1.0	3.4	3.9	1.1	1.2	.7	.8	.3	.3	.0	.0	.0	.0	6.4	7.2	10.1
NNW	.6	.7	2.9	3.3	.6	.7	.4	.5	.1	.1	.0	.0	.0	.0	4.7	5.3	9.4
CALM	3.4	3.9													3.4	3.9	
TOTAL	12.0	13.5	52.8	59.3	12.7	14.3	7.6	8.6	3.4	3.8	.4	.5	.0	.0	89.0	100	9.5

CEILING-VISIBILITY

WIND GRAPH

EVV EVANSVILLE, IN

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EVV EVANSVILLE, IN

CLASS 1 / NIGHT

NO. OBS.: 37562

STATION NUMBER: 93817

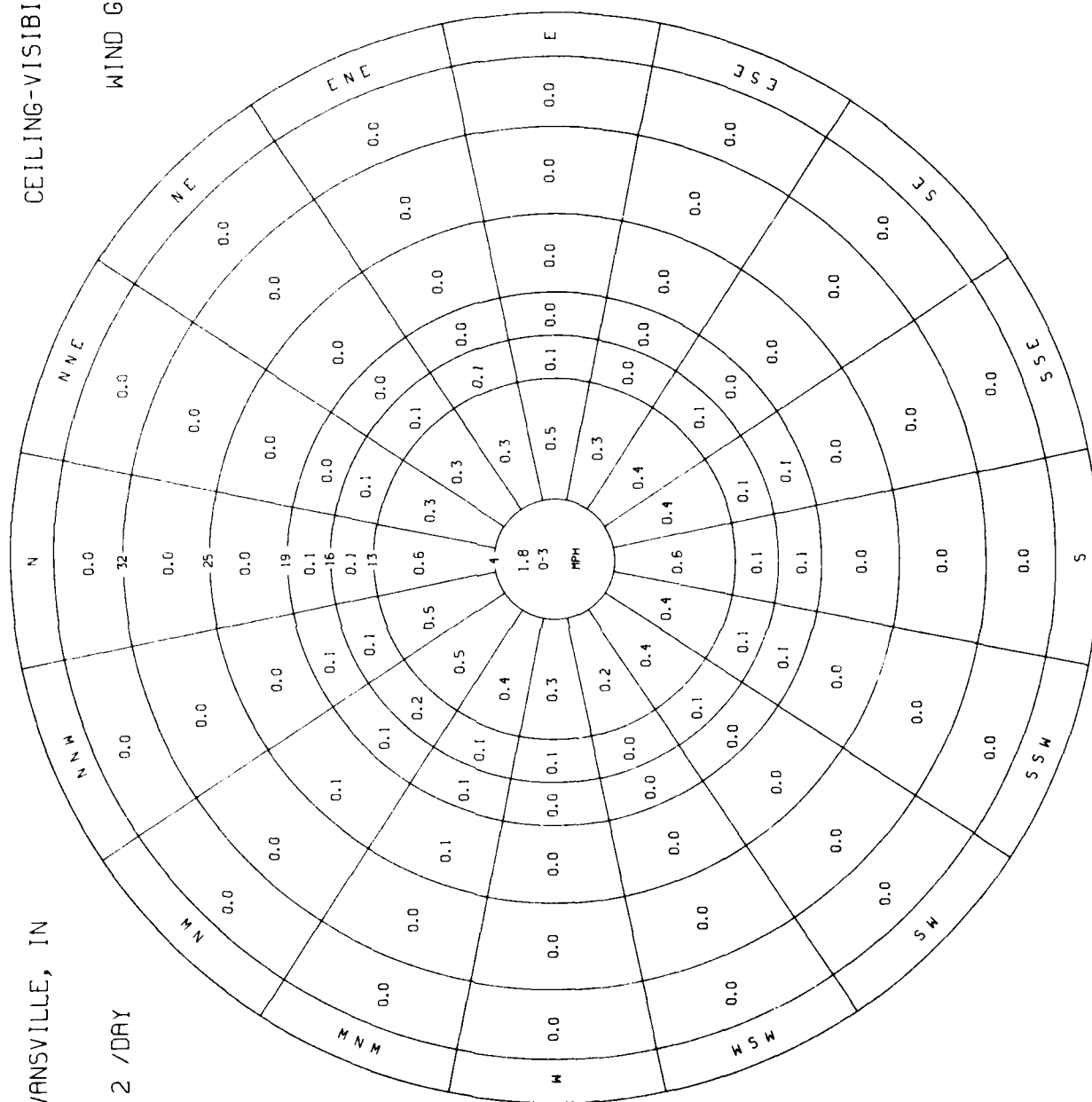
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	1.6	1.8	3.2	3.6	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	5.5 6.2 7.3
NNE	.6	.7	1.9	2.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.9 3.2 7.9
NNE	1.1	1.2	2.5	2.8	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.8 4.3 6.5
ENE	.9	1.1	2.3	2.5	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	3.4 3.8 6.4
E	1.2	1.3	2.5	2.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.9 4.4 6.4
ESE	.6	.6	1.5	1.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1 2.4 6.7
SE	1.0	1.1	2.8	3.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.1 4.7 7.0
SSE	.6	.7	2.6	2.9	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.8 4.3 8.3
S	.9	1.0	5.1	5.8	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	7.5 8.4 8.8
SSW	.6	.7	3.6	4.0	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	5.6 6.4 9.8
SW	.8	.9	3.5	4.0	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	5.1 5.8 8.4
WSW	.5	.6	1.9	2.2	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.9 3.3 8.1
W	.9	1.0	2.6	2.9	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	4.2 4.7 8.0
WNW	1.2	1.4	2.7	3.1	.5	.6	.4	.4	.2	.2	.0	.0	.0	.0	5.0 5.6 8.6
NW	3.2	3.7	4.4	5.0	.7	.7	.4	.4	.2	.2	.0	.0	.0	.0	8.9 10.1 6.8
NNW	2.4	2.7	3.6	4.0	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	6.8 7.7 6.8
CALM	13.1	14.8													13.1 14.8
TOTAL	31.3	35.3	46.5	52.4	6.2	7.0	3.1	3.5	1.4	1.5	.2	.3	.0	.0	88.6 100 6.5

CEILING-VISIBILITY

WIND GRAPH

EVV EVANSVILLE, IN

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

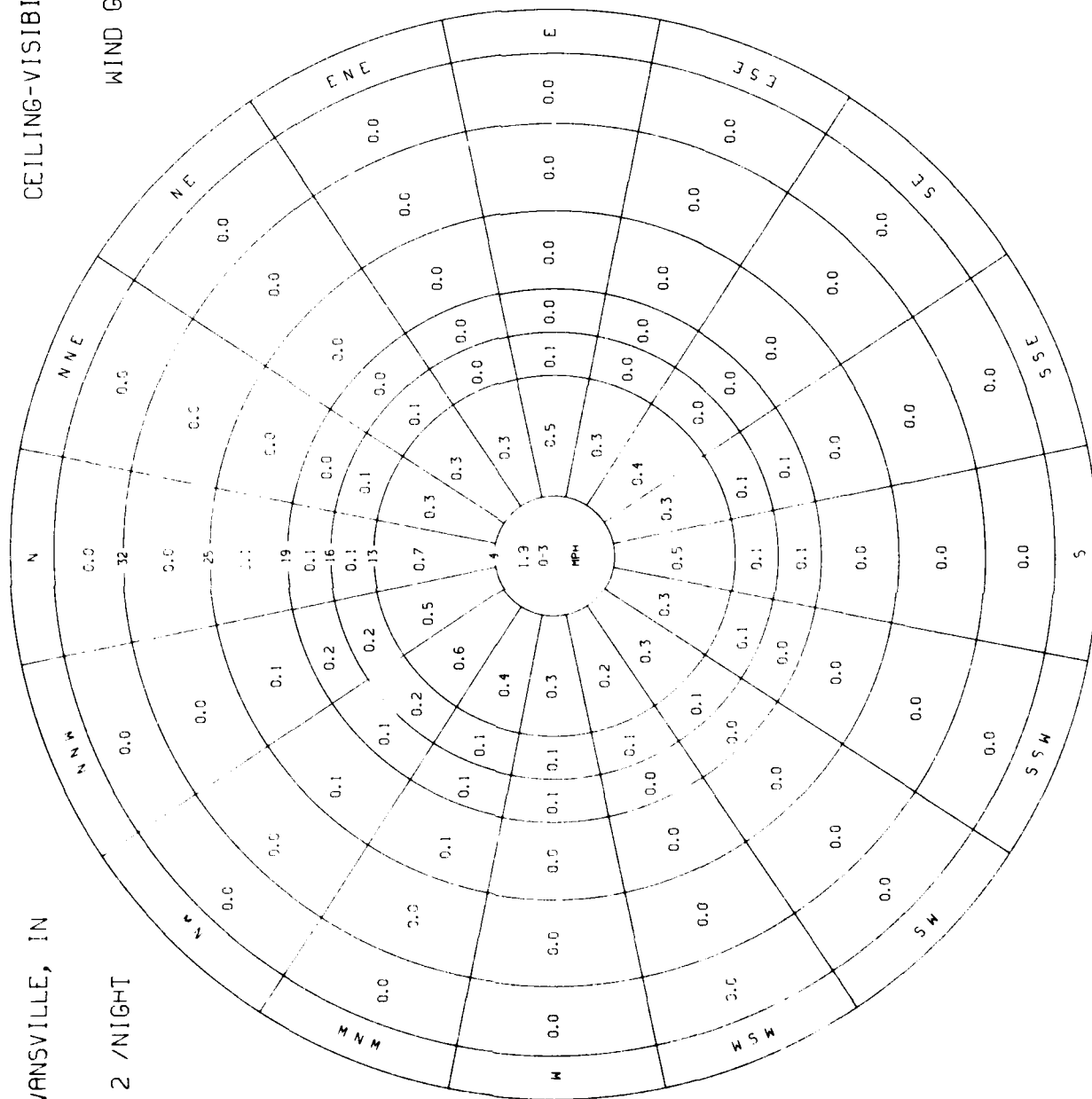
CLASS 2 / DAY

STATION NUMBER: 93817

NO. OBS.: 5320

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.1	1.0	.6	5.2	.1	1.0	.1	1.1	.0	.2	.0	.0	.0	.0	.9	8.5
NNE	.0	.4	.3	2.4	.1	.6	.0	.3	.0	.0	.0	.0	.0	.0	.4	3.8
NE	.1	.8	.3	2.8	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.5	4.4
ENE	.1	.9	.3	3.0	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	4.9
E	.1	.8	.5	4.9	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.7	6.8
ESE	.1	.6	.3	3.0	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	4.0
SE	.1	.9	.4	3.9	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.6	5.8
SSE	.1	.6	.4	3.3	.1	.9	.1	.5	.0	.1	.0	.0	.0	.0	.6	5.5
S	.1	.6	.6	5.1	.1	1.2	.1	1.0	.0	.3	.0	.0	.0	.0	.9	8.2
SSW	.0	.4	.4	3.3	.1	.9	.1	.8	.0	.4	.0	.1	.0	.0	.7	5.9
SW	.1	.5	.4	3.4	.1	.6	.0	.4	.0	.2	.0	.0	.0	.0	.6	5.2
WSW	.0	.3	.2	2.2	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.4
W	.0	.4	.3	2.7	.1	.7	.0	.4	.0	.3	.0	.0	.0	.1	.5	4.6
WNW	.1	.6	.4	3.5	.1	1.3	.1	.9	.1	.5	.0	.1	.0	.0	.8	6.8
NW	.1	.6	.5	4.9	.2	1.5	.1	.9	.1	.6	.0	.0	.0	.0	.9	8.5
NNW	.1	.6	.5	4.4	.1	1.2	.1	.8	.0	.4	.0	.0	.0	.0	.8	7.5
CALM	.7	6.1													.7	6.1
TOTAL	1.8	16.2	6.4	58.1	1.4	13.0	1.0	8.6	.4	3.7	.0	.3	.0	.1	11.0	100
																9.3

EVV EVANSVILLE, IN
 CLASS 2 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EVV EVANSVILLE, IN

CLASS 2 / NIGHT

NO. OBS.: 4816

STATION NUMBER: 93817

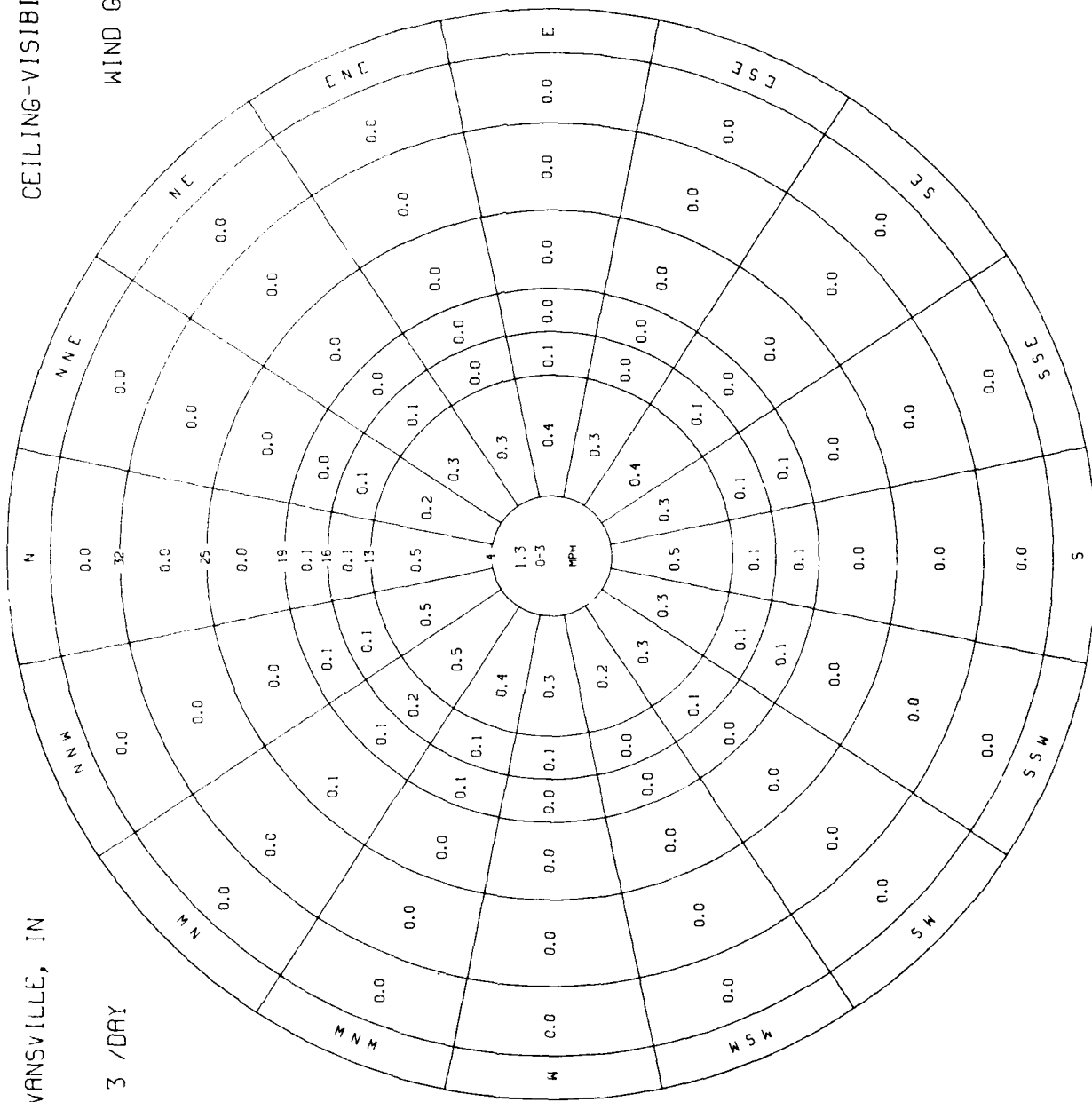
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.9	.7	6.2	.1	1.2	.1	1.0	.1	.5	.0	.1	.0	.0	1.1 9.8
NNE	.1	.5	.3	2.5	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.4 3.9
NE	.1	.6	.3	3.1	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.5 4.5
ENE	.1	.6	.3	2.6	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.4 3.8
E	.1	1.1	.5	4.3	.1	.5	.0	.3	.0	.2	.0	.0	.0	.0	.7 6.5
ESE	.1	.8	.3	2.8	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.5 4.2
SE	.1	.7	.4	3.4	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.6 4.9
SSE	.0	.4	.3	2.7	.1	.5	.1	.5	.0	.3	.0	.0	.0	.0	.5 4.3
S	.1	.7	.5	4.0	.1	1.0	.1	.6	.0	.3	.0	.0	.0	.0	.8 6.6
SSW	.0	.4	.3	2.9	.1	.9	.0	.3	.0	.1	.0	.0	.0	.0	.5 4.7
SW	.1	.5	.3	2.6	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.5 4.3
WSW	.0	.4	.2	2.0	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.4 3.4
W	.1	.7	.3	2.9	.1	.6	.1	.6	.0	.4	.0	.1	.0	.0	.6 5.1
WNW	.1	.5	.4	3.8	.1	1.3	.1	.9	.1	.5	.0	.2	.0	.0	.8 7.1
NW	.1	.7	.6	5.7	.2	2.2	.1	1.2	.1	.9	.0	.1	.0	.0	1.2 10.8
NNW	.1	.7	.5	4.6	.2	1.9	.2	1.3	.1	.5	.0	.1	.0	.0	1.0 9.1
CALM	.8	7.0													.8 7.0
TOTAL	1.9	17.1	6.4	56.0	1.5	13.4	1.0	8.6	.5	4.3	.1	.7	.0	.0	11.4 100
															9.2

CEILING-VISIBILITY

WIND GRAPH

EVV EVANSVILLE, IN

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 3 / DAY

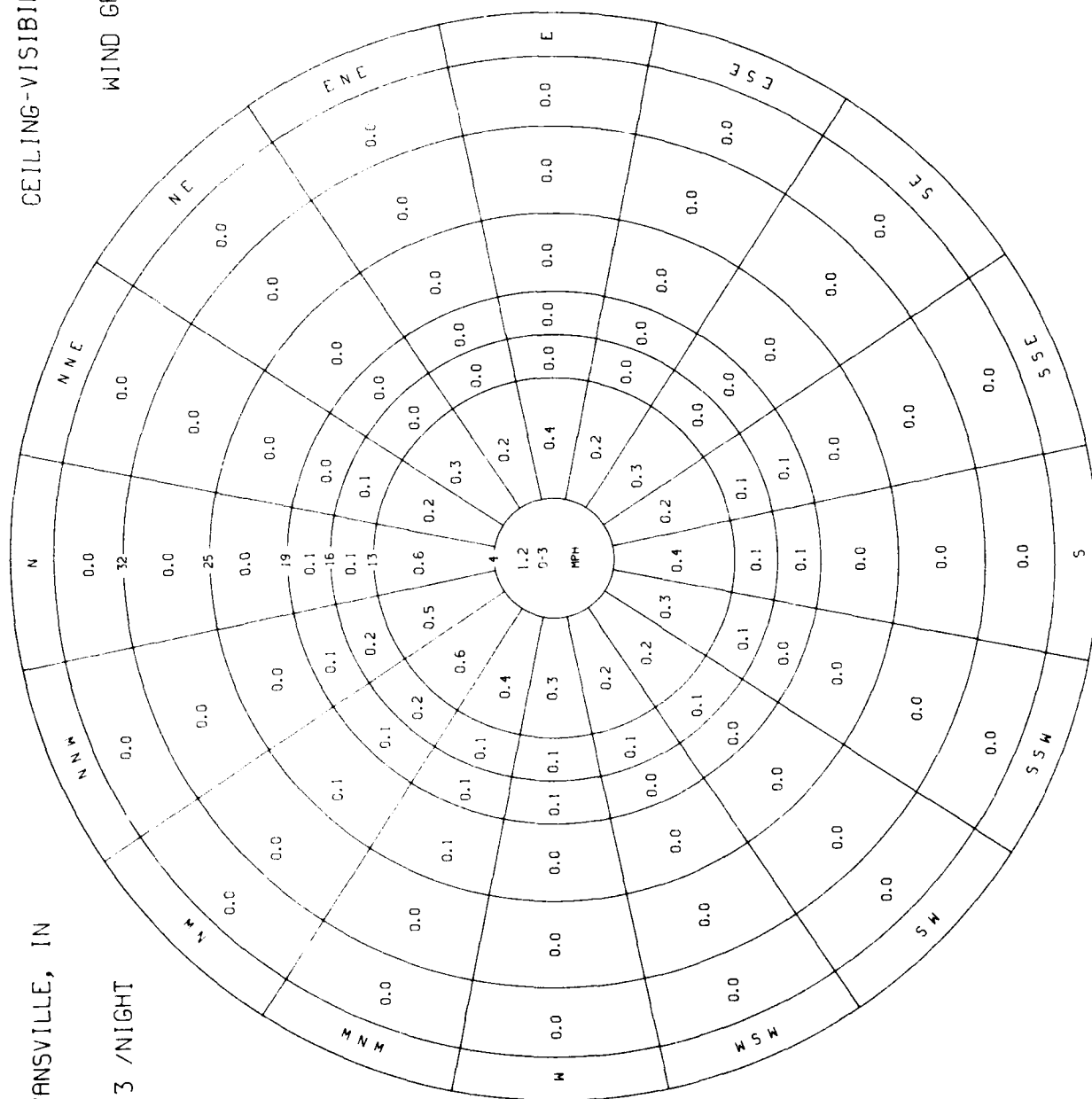
STATION NUMBER: 93817

NO. OBS.: 4628

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.1	.8	.5	5.1	.1	1.1	.1	1.1	.0	.3	.0	.0	.0	.0	.8	8.4
NNE	.0	.3	.2	2.5	.1	.6	.0	.4	.0	.0	.0	.0	.0	.0	.4	3.9
NE	.1	.6	.3	2.8	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.4	4.3
ENE	.1	.7	.3	3.0	.0	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	4.7
E	.1	.7	.4	4.6	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.6	6.5
ESE	.0	.5	.3	2.7	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	3.7
SE	.1	.8	.4	3.8	.1	.7	.0	.3	.0	.0	.0	.0	.0	.0	.5	5.6
SSE	.0	.5	.3	3.2	.1	.9	.1	.6	.0	.1	.0	.0	.0	.0	.5	5.4
S	.1	.5	.5	5.0	.1	1.3	.1	1.2	.0	.3	.0	.0	.0	.0	.8	8.4
SSW	.0	.4	.3	3.4	.1	1.0	.1	.9	.0	.4	.0	.1	.0	.0	.6	6.3
SW	.0	.5	.3	3.5	.1	.6	.0	.5	.0	.3	.0	.0	.0	.0	.5	5.3
WSW	.0	.2	.2	2.3	.0	.4	.0	.4	.0	.2	.0	.0	.0	.0	.3	3.5
W	.0	.3	.3	2.8	.1	.8	.0	.5	.0	.3	.0	.0	.0	.0	.5	4.8
WNW	.1	.6	.4	3.7	.1	1.5	.1	1.0	.0	.5	.0	.1	.0	.0	.7	7.4
NW	.1	.6	.5	5.2	.2	1.6	.1	.9	.1	.6	.0	.0	.0	.0	.9	8.9
NNW	.0	.5	.5	4.8	.1	1.3	.1	.9	.0	.5	.0	.0	.0	.0	.8	7.9
CALM	.5	5.0													.5	5.0
TOTAL	1.3	13.6	5.6	58.6	1.3	14.0	.9	9.5	.4	4.0	.0	.4	.0	.1	9.6	100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EVV EVANSVILLE, IN

CLASS 3 / NIGHT

NO. OBS.: 3957

STATION NUMBER: 93817

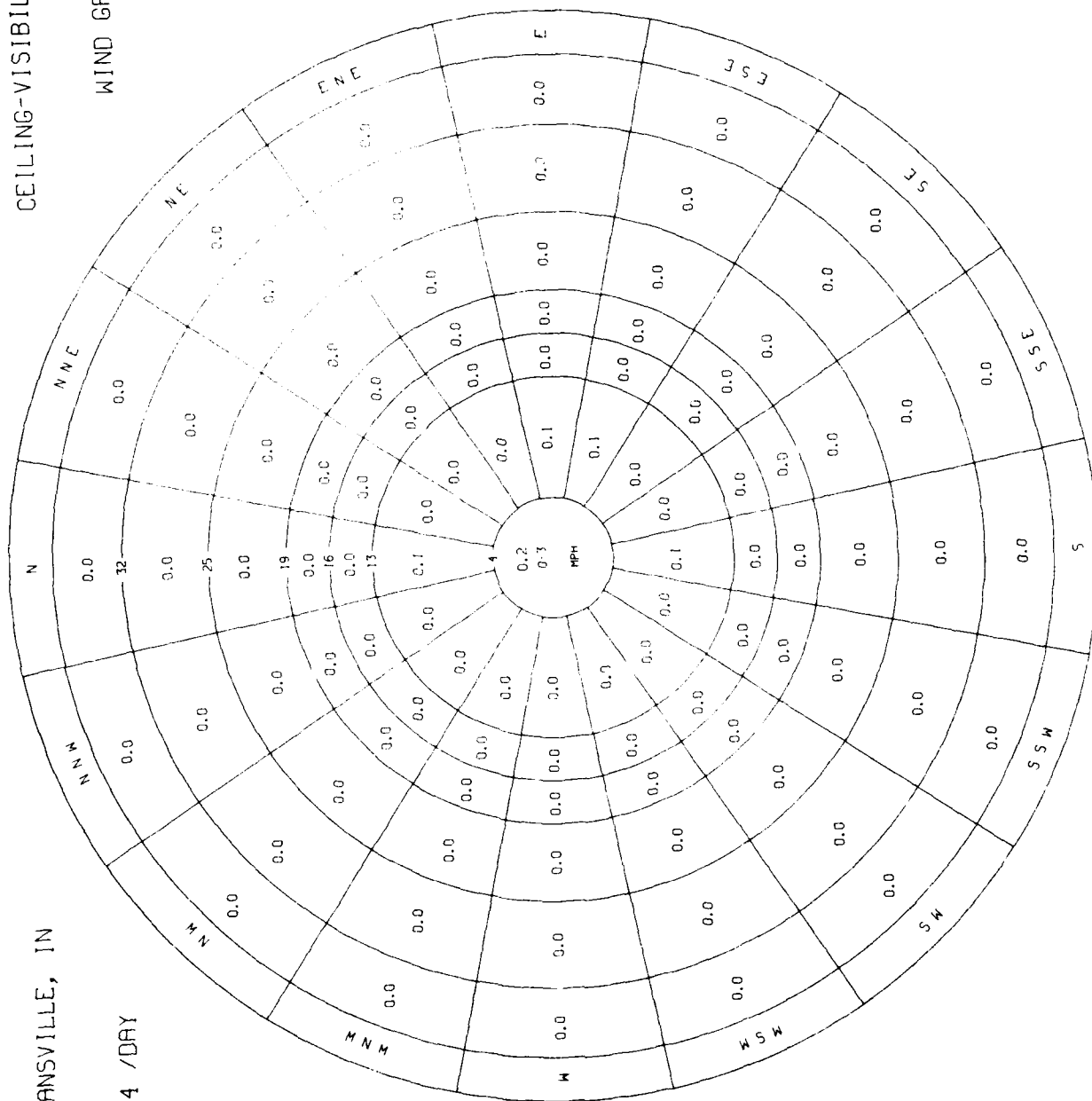
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.7	.6	6.4	.1	1.3	.1	1.1	.0	.5	.0	.1	.0	.0	.9 10.2
NNE	.0	.4	.2	2.5	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.4 4.0
NE	.0	.5	.3	3.0	.0	.5	.0	.3	.0	.1	.0	.0	.0	.0	.4 4.3
ENE	.0	.4	.2	2.4	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.3 3.5
E	.1	1.0	.4	3.9	.0	.5	.0	.4	.0	.2	.0	.1	.0	.0	.6 6.0
ESE	.0	.5	.2	2.7	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.3 3.7
SSE	.0	.5	.3	3.0	.0	.4	.0	.4	.0	.1	.0	.0	.0	.0	.4 4.5
SSE	.0	.3	.2	2.3	.1	.6	.1	.6	.0	.4	.0	.0	.0	.0	.4 4.2
S	.1	.7	.4	3.8	.1	1.3	.1	.7	.0	.4	.0	.0	.0	.0	.6 6.7
SSW	.0	.3	.3	3.2	.1	.9	.0	.4	.0	.2	.0	.0	.0	.0	.5 5.0
SW	.0	.3	.2	2.6	.1	.8	.0	.5	.0	.1	.0	.0	.0	.0	.4 4.3
WSW	.0	.3	.2	2.2	.1	.7	.0	.3	.0	.2	.0	.1	.0	.0	.3 3.7
W	.1	.7	.3	3.0	.1	.7	.1	.6	.0	.4	.0	.1	.0	.0	.5 5.6
WNW	.0	.5	.4	4.3	.1	1.5	.1	1.1	.1	.6	.0	.2	.0	.0	.8 8.1
NW	.1	.6	.6	5.9	.2	2.6	.1	1.4	.1	1.1	.0	.1	.0	.0	1.1 11.6
NNW	.0	.5	.5	4.9	.2	2.1	.1	1.5	.0	.5	.0	.1	.0	.0	.9 9.7
CALM	.5	4.9													.5 4.9
TOTAL	1.2	13.1	5.2	56.1	1.4	15.2	.9	10.0	.5	4.9	.1	.7	.0	.1	9.3 100

CEILING-VISIBILITY

WIND GRAPH

EVV EVANSVILLE, IN

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 4 / DAY

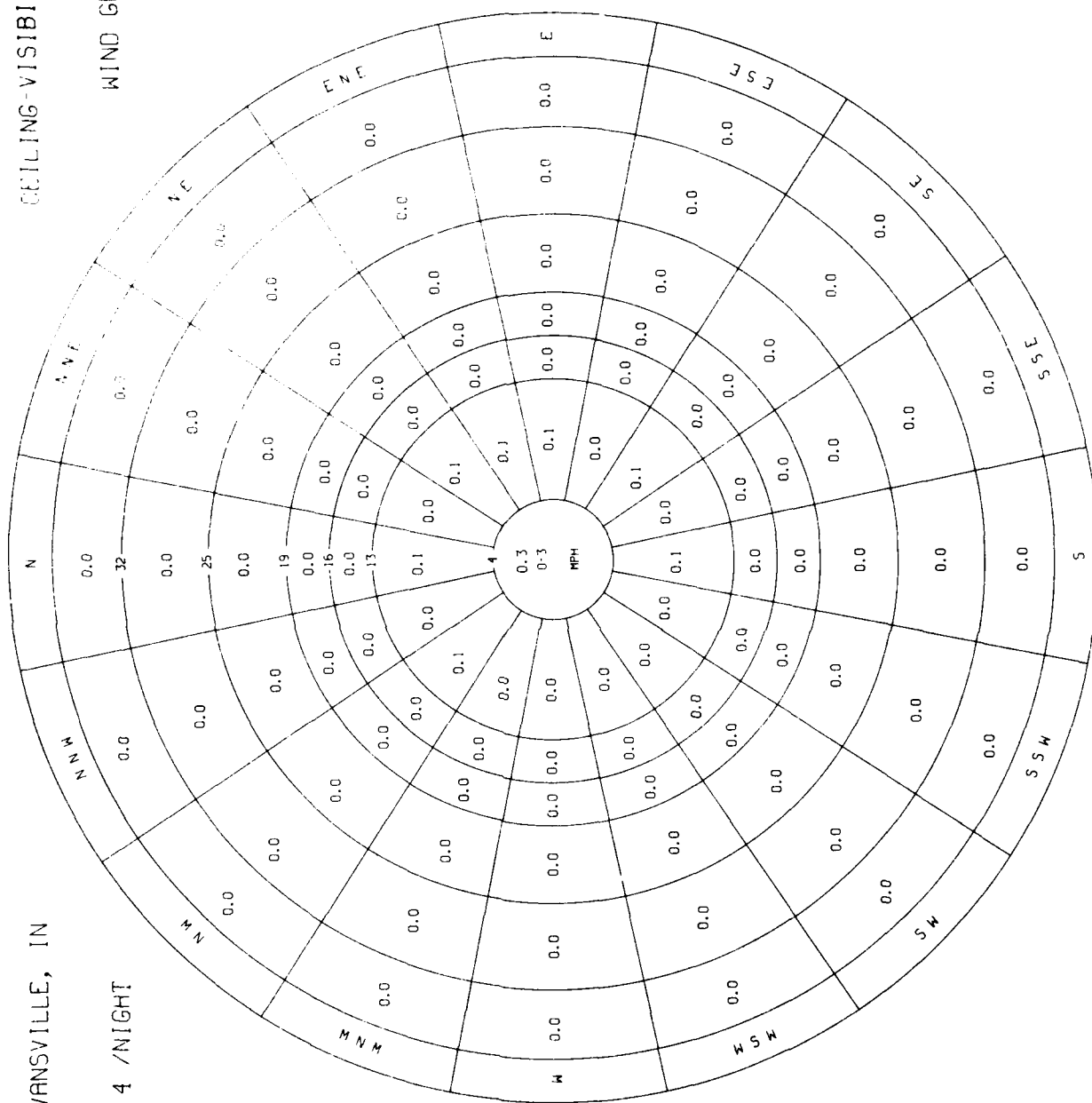
STATION NUMBER: 93817

NO. OBS.: 461

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	1.5	.1	7.4	.0	.9	.0	1.3	.0	.2	.0	.0	.0	.0	.1	11.3	9.6
NNE	.0	.7	.0	2.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.9
NE	.0	1.7	.0	2.2	.0	.4	.0	.0	.0	.2	.0	.0	.0	.0	.0	5.2	6.9
ENE	.0	1.5	.0	2.6	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	4.8	6.8
E	.0	1.1	.1	7.4	.0	.9	.0	.0	.0	.2	.0	.0	.0	.0	.1	9.5	7.9
ESE	.0	1.1	.1	6.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.4	7.4
SE	.0	2.2	.0	4.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.2	6.2
SSE	.0	1.5	.0	3.7	.0	.9	.0	.0	.0	.2	.0	.0	.0	.0	.1	6.3	7.6
S	.0	.4	.1	6.1	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	7.2	7.8
SSW	.0	.9	.0	2.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.9	7.1
SW	.0	.7	.0	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	7.4
WSW	.0	.4	.0	2.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	8.5
W	.0	.9	.0	2.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	8.2
WNW	.0	.7	.0	2.0	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.0	3.7	9.8
NW	.0	.7	.0	3.0	.0	1.3	.0	1.3	.0	.2	.0	.0	.0	.0	.1	6.5	11.0
NNW	.0	.9	.0	2.4	.0	.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	5.0	10.3
CALM	.1	8.2													.1	8.2	
TOTAL	.2	24.9	.6	59.7	.1	8.7	.0	4.1	.0	2.4	.0	.0	.0	.2	1.0	100	7.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 4 / NIGHT

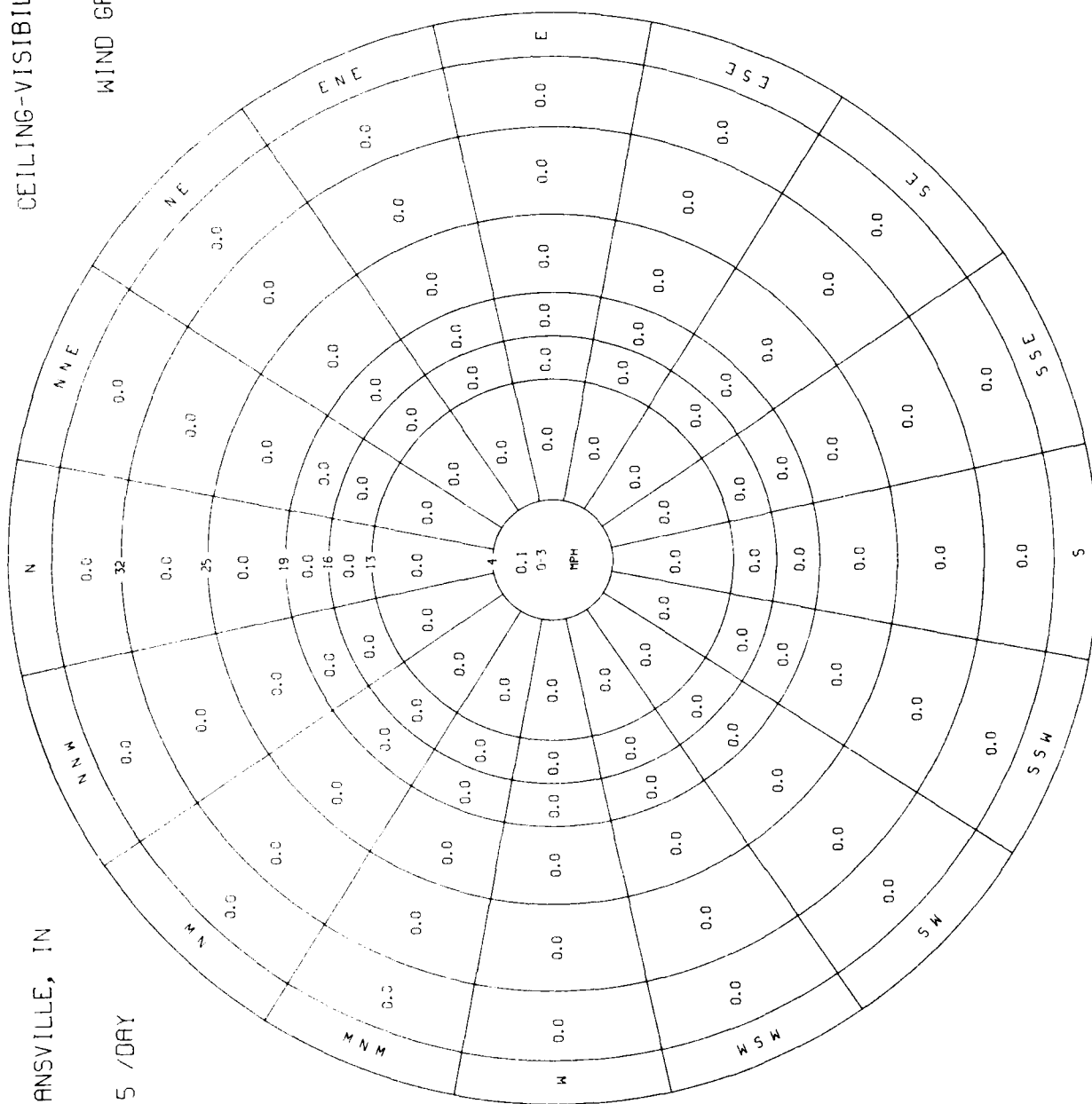
STATION NUMBER: 93817

NO. OBS.: 513

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.0	1.2	.1	6.8	.0	.8	.0	.8	.0	.4	.0	.0	.0	.0	.1	9.9	9.1					
NNE	.0	.6	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	6.9					
NE	.0	.8	.1	4.9	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.8	8.3					
ENE	.0	.8	.1	4.5	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	5.8	7.3					
E	.0	1.4	.1	5.1	.0	.6	.0	.0	.0	.4	.0	.0	.0	.0	.1	7.4	7.7					
ESE	.0	1.6	.0	3.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.4	7.4					
SE	.0	1.2	.1	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.6	6.5					
SSE	.0	.6	.0	3.3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	4.1	7.5					
S	.0	1.2	.1	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.0	6.4					
SSW	.0	.8	.0	2.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	7.8					
SW	.0	1.0	.0	3.1	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	4.5	6.9					
WSW	.0	.4	.0	1.9	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.9	7.9					
W	.0	.8	.0	2.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.5	6.9					
WNW	.0	.6	.0	1.8	.0	.4	.0	.0	.0	.6	.0	.4	.0	.0	.0	3.7	12.1					
NW	.0	1.4	.1	4.9	.0	.6	.0	.4	.0	.2	.0	.0	.0	.0	.1	7.4	8.3					
NNW	.0	1.4	.0	3.5	.0	1.0	.0	1.0	.0	.4	.0	.2	.0	.0	.1	7.4	9.6					
CALM	.1	9.2													.1	9.2						
TOTAL	.3	24.6	.8	62.6	.1	7.2	.0	3.1	.0	1.9	.0	.6	.0	.0	1.2	100	7.2					

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

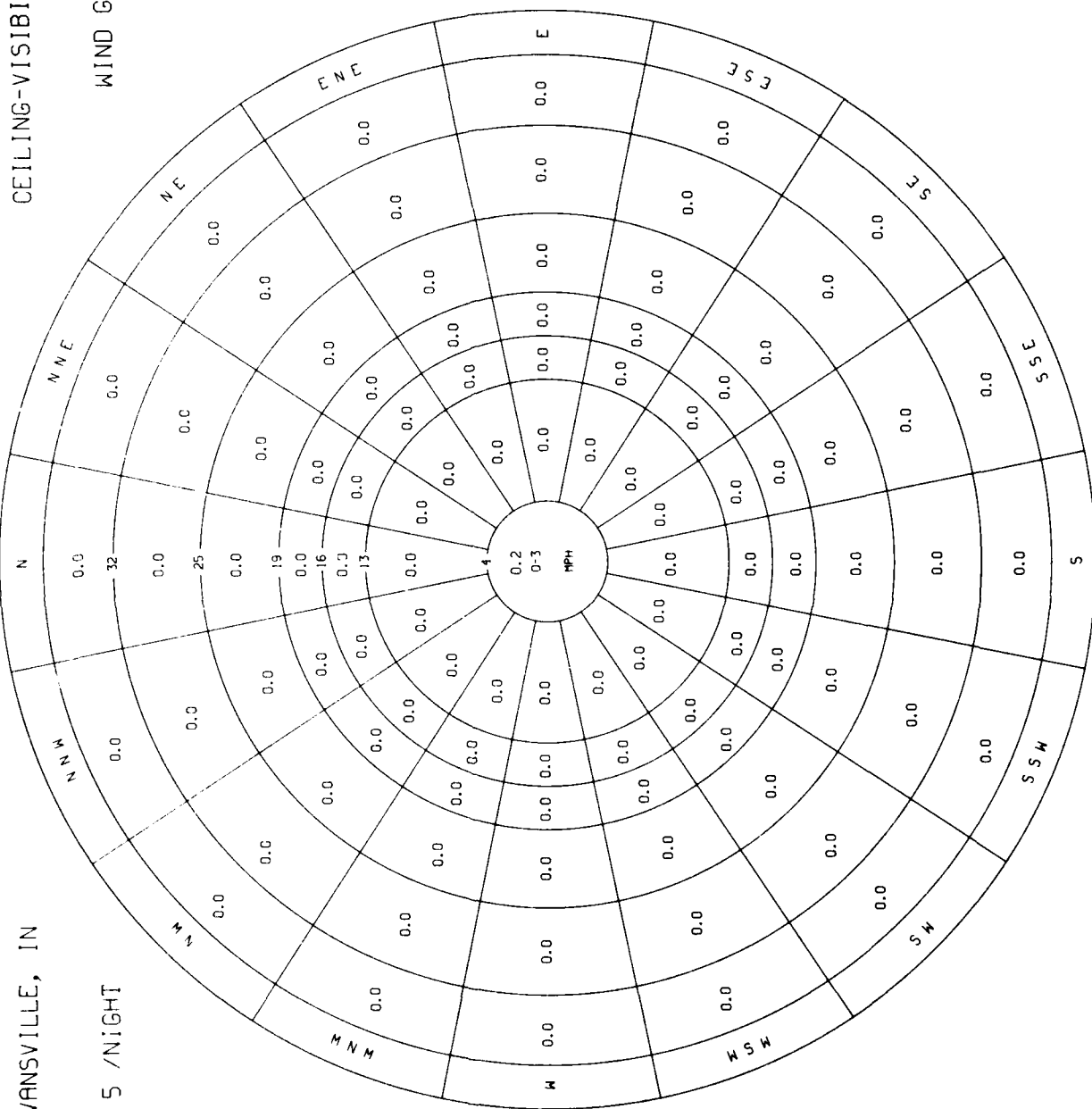
CLASS 5 / DAY

STATION NUMBER: 93817

NO. OBS.: 111

D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	O				
N	.0	5.4	.0	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	4.9		
NNE	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.3		
NE	.0	1.8	.0	3.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.9		
ENE	.0	4.5	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	4.9		
E	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.0		
ESE	.0	.9	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.7		
SE	.0	1.8	.0	7.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	6.6		
SSE	.0	.9	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	6.9		
S	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	7.4		
SSW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	8.5		
SW	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.5		
WSW	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.0		
W	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.5	.9	.0	.0	.0	.0	4.5	14.4		
WNW	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.0		
NW	.0	.9	.0	1.8	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	3.6	10.2		
NNW	.0	1.8	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.0		
CALM	.0	20.7												.0	20.7				
TOTAL	.1	42.3	.1	51.4	.0	3.6	.0	.0	.0	1.8	.0	.9	.0	.0	.2	100	5.4		

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 5 / NIGHT

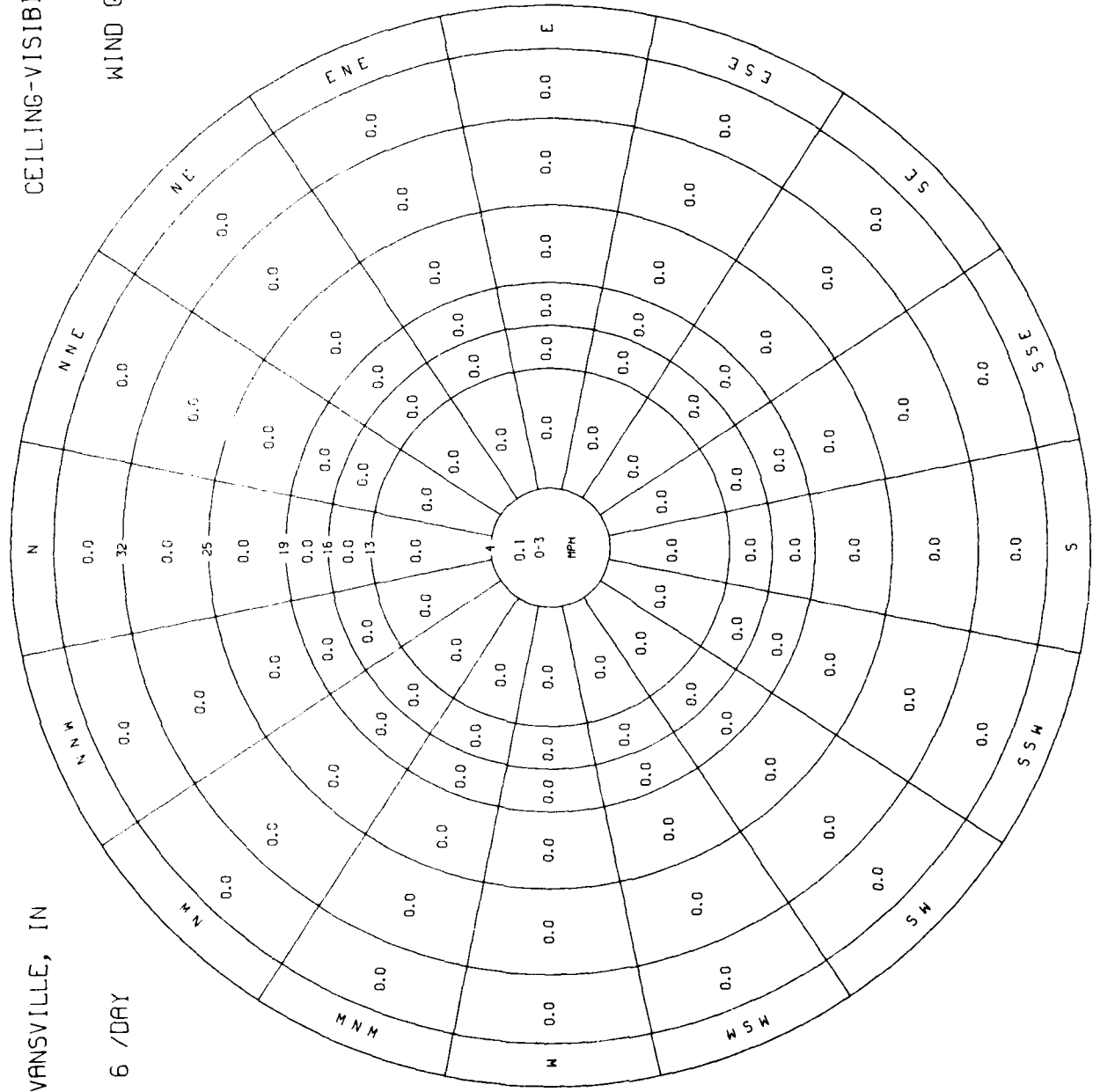
STATION NUMBER: 93817

NO. OBS.: 135

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	3.0	.0	3.7	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0 8.1
NNE	.0	.0	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
NE	.0	2.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
ENE	.0	2.2	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.7
E	.0	3.7	.0	8.1	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0 12.6
ESE	.0	3.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.4
SE	.0	.7	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.4
SSE	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.9
S	.0	.7	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.7
SSW	.0	.7	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
SW	.0	3.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.4
WSW	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
W	.0	2.2	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.7
WNW	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 .7
NW	.0	2.2	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.9
NNW	.0	1.5	.0	5.2	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0 8.9
CALM	.1	20.7													.1 20.7
TOTAL	.2	47.4	.1	45.9	.0	3.0	.0	.7	.0	2.2	.0	.7	.0	.0	.3 100
															5.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: EVV EVANSVILLE, IN

CLASS 6 / DAY

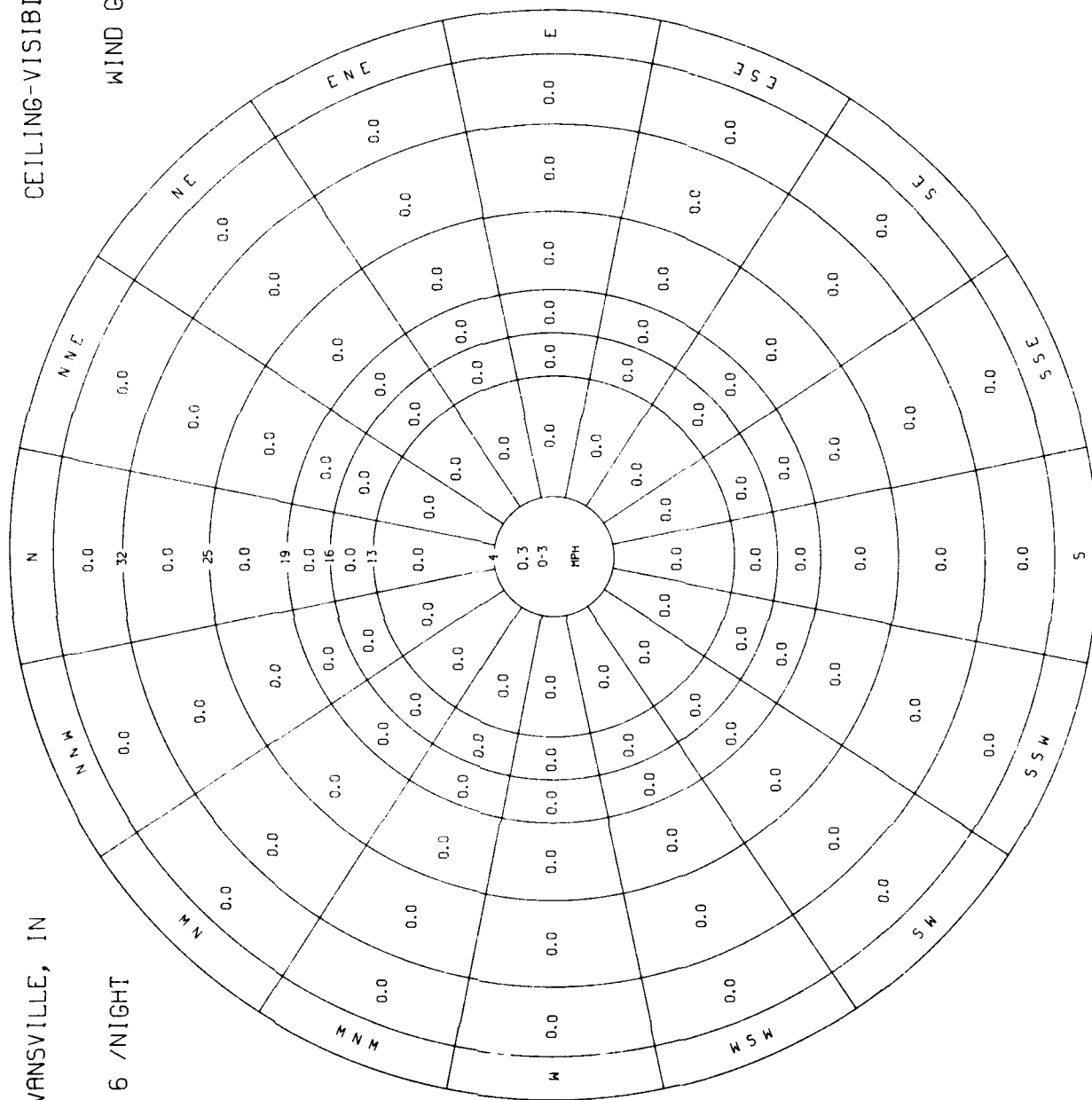
NO. OBS.: 120

STATION NUMBER: 93817

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	2.5	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	3.8
NNE	.0	1.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.0
NE	.0	3.3	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	3.8
ENE	.0	3.3	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	4.7
E	.0	2.5	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	5.5
ESE	.0	.8	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.3
SE	.0	2.5	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.0
SSE	.0	3.3	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	4.1
S	.0	3.3	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	5.3
SSW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	8.7
SW	.0	1.7	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.5
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	2.5	11.3
WNW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5.0
NW	.0	2.5	.0	1.7	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	5.0	6.8
NNW	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	2.8
CALM	.1	26.7														.1	26.7	
TOTAL	.1	58.3	.1	40.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.2	100	3.8

CEILING-VISIBILITY
WIND GRAPH

EVV EVANSVILLE, IN
CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 6 / NIGHT

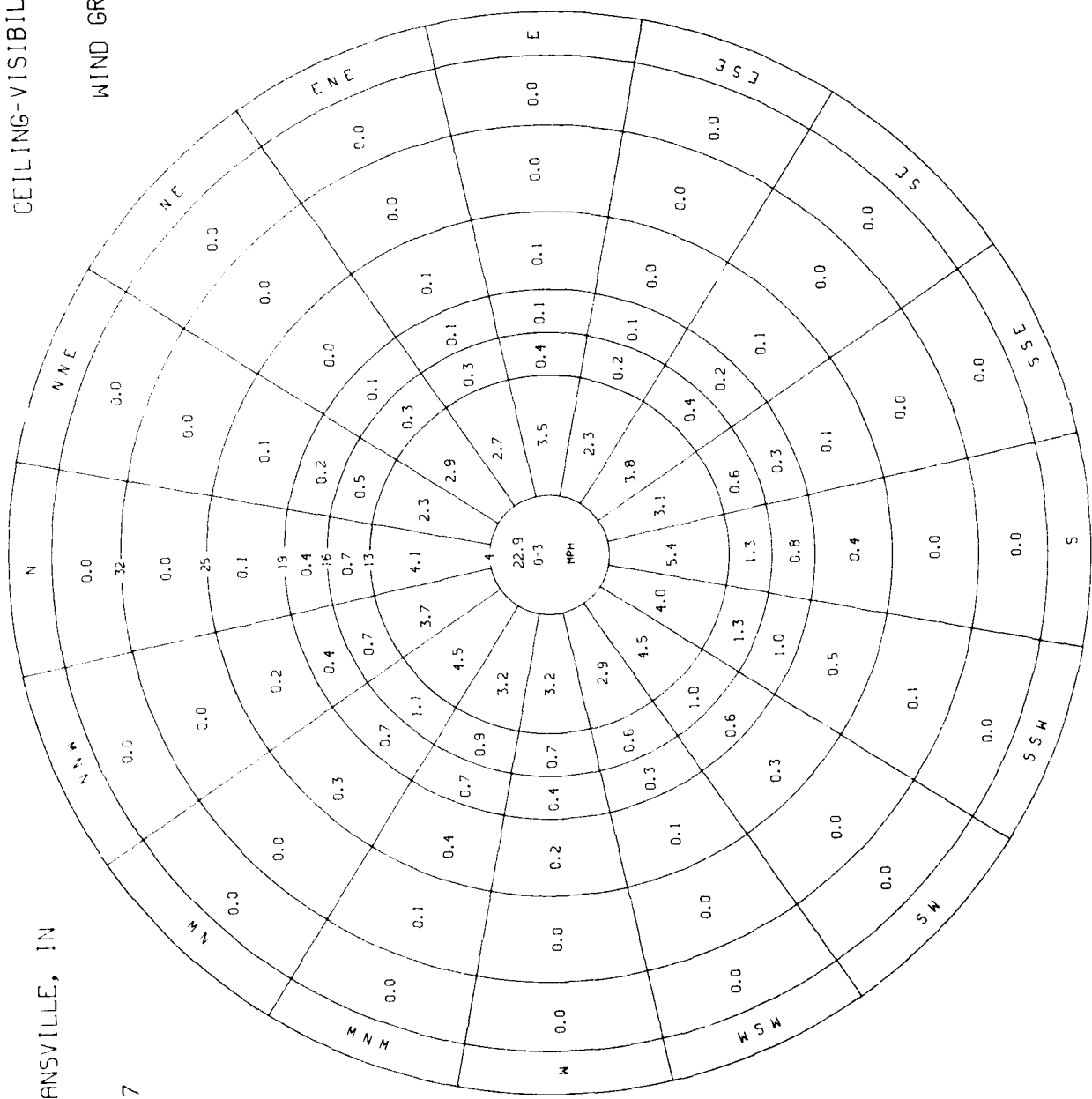
STATION NUMBER: 93817

NO. OBS.: 211

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	1.4	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
NNE	.0	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
NE	.0	1.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4
ENE	.0	2.4	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
E	.0	1.9	.0	7.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5
ESE	.0	2.4	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1
SE	.0	3.8	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5
SSE	.0	.9	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6
S	.0	1.4	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
SSW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4
SW	.0	.9	.0	1.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3
WSW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
W	.0	.5	.0	1.4	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.4
WNW	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
NW	.0	1.4	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2
NNW	.0	.9	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3
CALM	.2	31.3													.2	31.3
TOTAL	.3	54.5	.2	44.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.5	100
																3.6

CEILING-VISIBILITY

WIND GRAPH



EVV EVANSVILLE, IN

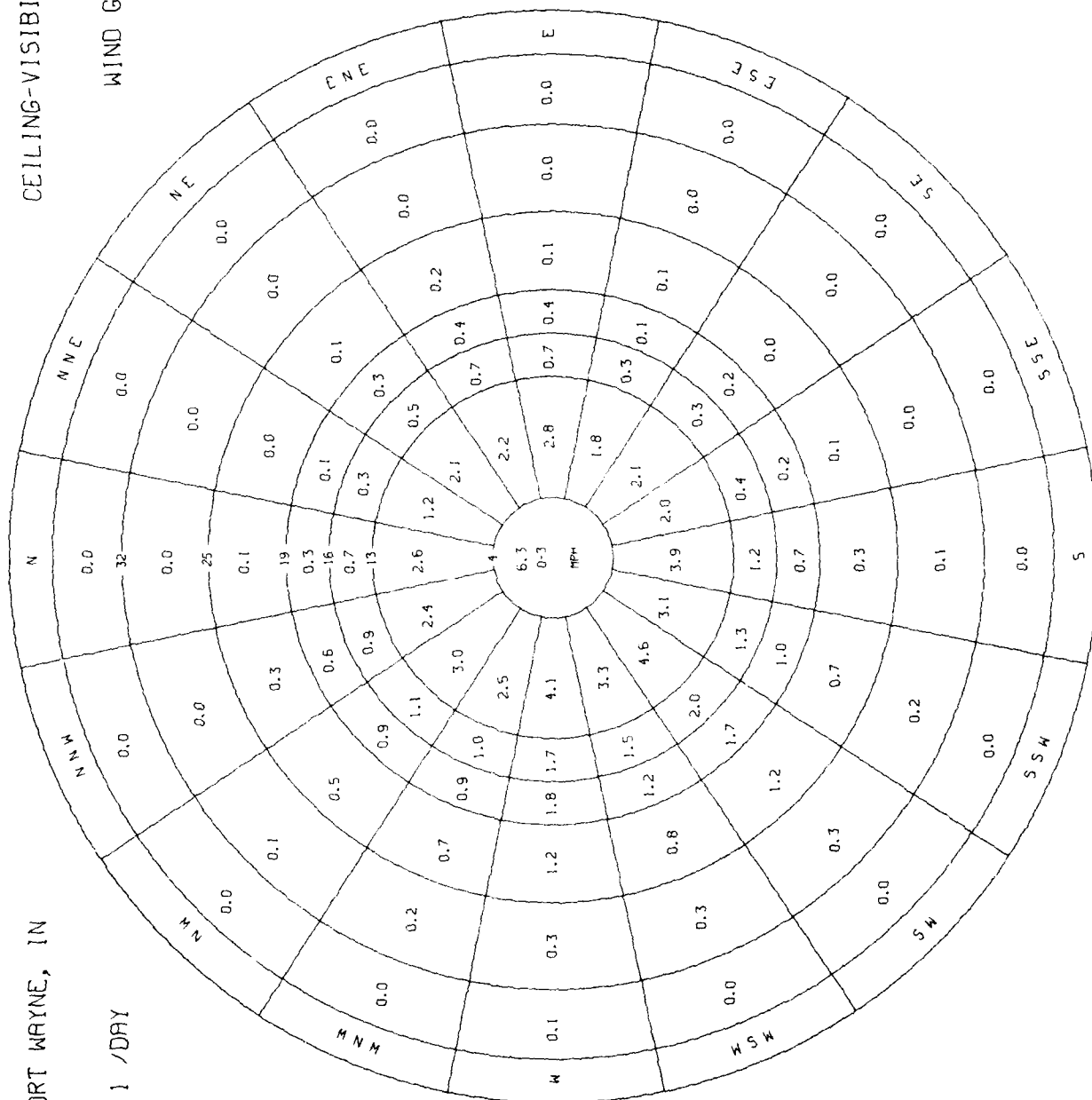
CLASS 7

CEILING-VISIBILITY

WIND GRAPH

FWA FORT WAYNE, IN

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 1 / DAY

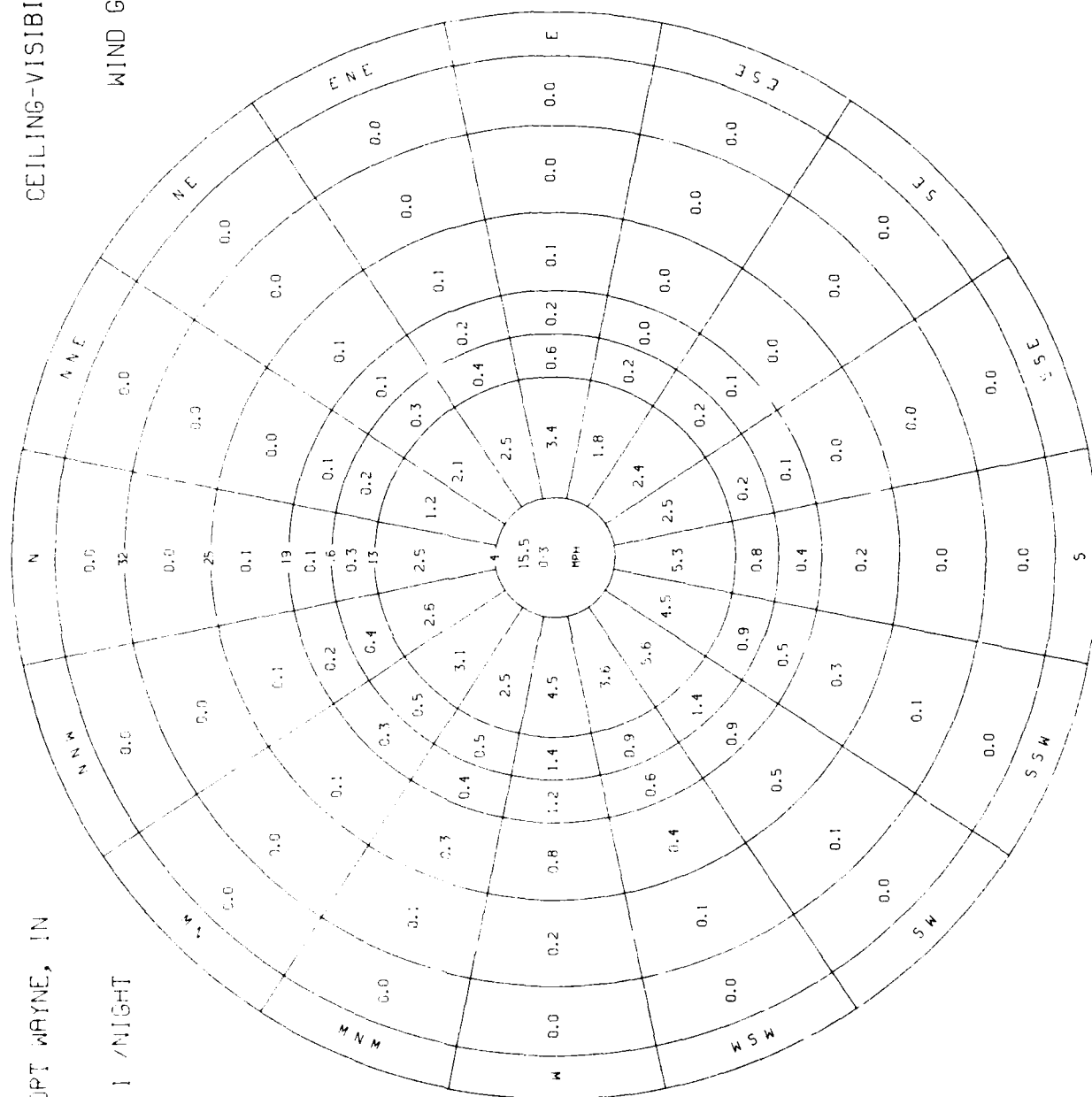
STATION NUMBER: 14827

NO. OBS.: 40950

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.3	.4	2.6	3.1	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.0	4.8	9.9
NNE	.2	.2	1.2	1.5	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	1.9	2.2	9.6
NE	.4	.4	2.1	2.6	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.4	4.0	9.6
ENE	.2	.2	2.2	2.7	.7	.8	.4	.5	.2	.2	.0	.1	.0	.0	3.7	4.4	11.1
E	.4	.4	2.8	3.4	.7	.9	.4	.5	.1	.2	.0	.0	.0	.0	4.5	5.4	10.0
ESE	.2	.2	1.8	2.1	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	2.5	3.0	9.4
SE	.4	.5	2.1	2.5	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.0	3.6	8.4
SSE	.3	.3	2.0	2.4	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.5	9.4
S	.5	.5	3.9	4.7	1.2	1.4	.7	.8	.3	.4	.1	.1	.0	.0	6.7	8.0	10.8
SSW	.3	.3	3.1	3.8	1.3	1.6	1.0	1.2	.7	.8	.2	.2	.0	.0	6.6	7.9	12.6
SW	.5	.5	4.6	5.5	2.0	2.4	1.7	2.0	1.2	1.5	.3	.4	.0	.0	10.4	12.4	13.0
WSW	.3	.3	3.3	3.9	1.5	1.7	1.2	1.4	.8	1.0	.3	.3	.0	.1	7.3	8.8	13.2
W	.4	.5	4.1	4.9	1.7	2.1	1.8	2.1	1.2	1.5	.3	.4	.1	.1	9.6	11.5	13.3
WNW	.2	.2	2.5	3.0	1.0	1.2	.9	1.1	.7	.8	.2	.2	.0	.0	5.4	6.5	13.1
NW	.4	.4	3.0	3.5	1.1	1.3	.9	1.1	.5	.6	.1	.1	.0	.0	5.9	7.0	11.7
NNW	.2	.3	2.4	2.9	.9	1.0	.6	.7	.3	.3	.0	.0	.0	.0	4.4	5.3	11.4
CALM	1.4	1.7													1.4	1.7	
TOTAL	6.3	7.5	43.7	52.5	14.5	17.4	10.8	12.9	6.4	7.7	1.5	1.8	.2	.2	83.4	100	11.5

WIND GRAPH

CLASS 1 / NIGHT



NATIONAL CLIMATIC CENTER ASHEVILLE NC

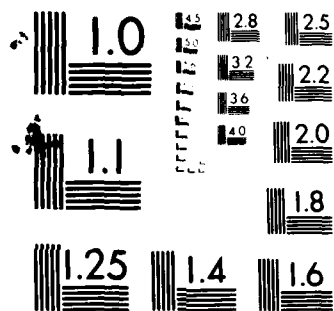
WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME I--ETC(U)
JUN 81 DOT-FA79WAI-057

DOT-FA79WAI-057

NL

UNCLASSIFIED

A 10x10 grid of 100 squares. The top-left square is white, and the rest are black.



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 1 / NIGHT

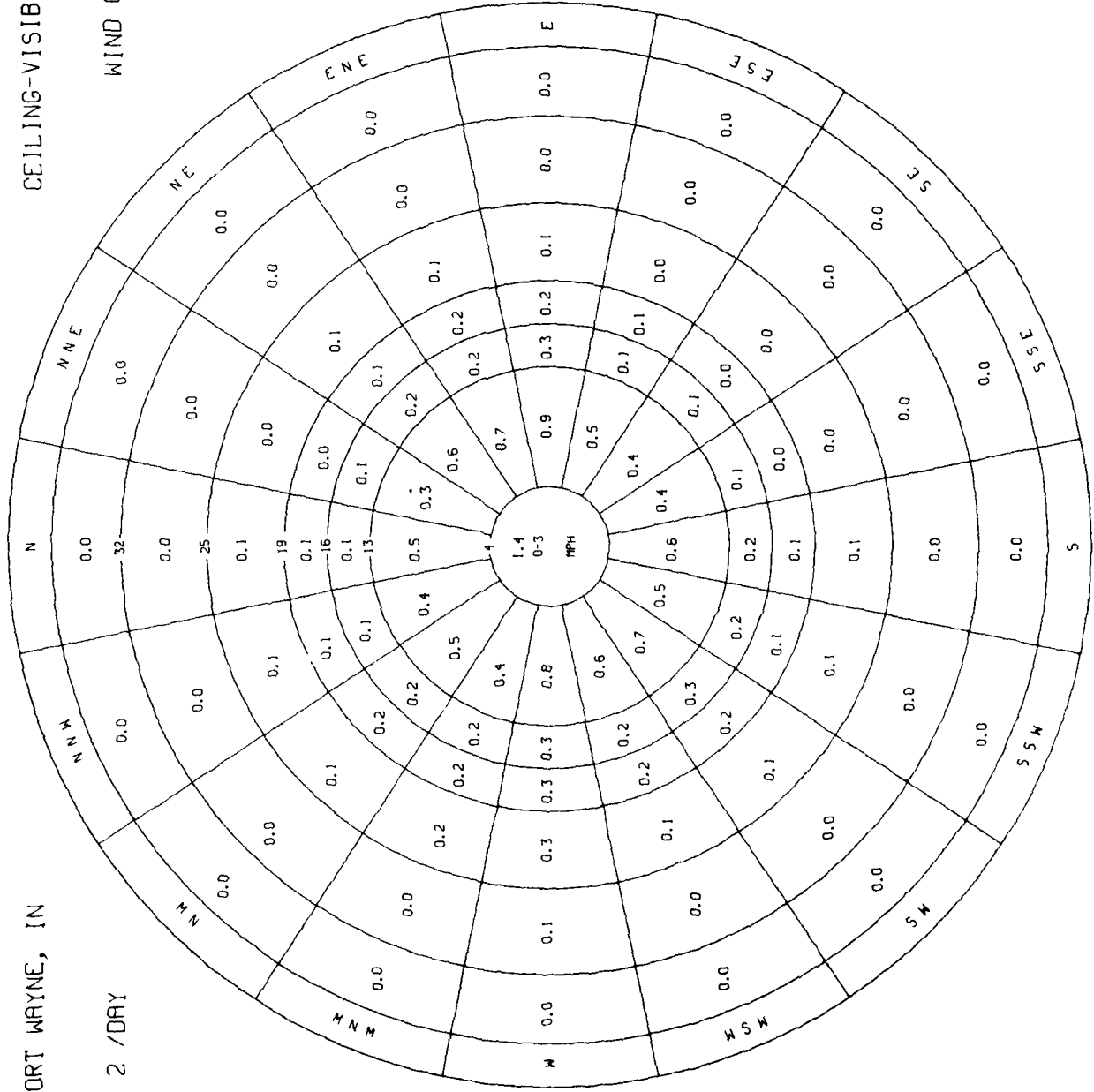
STATION NUMBER: 14827

NO. OBS.: 34988

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.6	.7	2.5	3.0	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.7	4.3	8.0
NNE	.2	.3	1.2	1.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.7	2.0	8.3
NE	.8	.9	2.1	2.5	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.4	4.0	7.9
ENE	.3	.4	2.5	2.9	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.6	4.3	9.3
E	.6	.7	3.4	4.0	.6	.7	.2	.3	.1	.1	.0	.0	.0	.0	5.0	5.9	8.7
ESE	.4	.4	1.8	2.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	2.9	7.5
SE	.9	1.1	2.4	2.9	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.6	4.3	6.8
SSE	.6	.7	2.5	3.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.5	4.2	7.5
S	1.1	1.4	5.3	6.3	.8	1.0	.4	.5	.2	.2	.0	.0	.0	.0	8.0	9.5	8.7
SSW	.7	.8	4.5	5.3	.9	1.1	.5	.6	.3	.3	.1	.1	.0	.0	6.9	8.2	9.8
SW	1.1	1.3	5.6	6.7	1.4	1.6	.9	1.0	.5	.6	.1	.1	.0	.0	9.6	11.3	10.0
WSW	.6	.7	3.6	4.3	.9	1.0	.6	.7	.4	.5	.1	.1	.0	.0	6.2	7.3	10.6
W	.9	1.1	4.5	5.3	1.4	1.7	1.2	1.4	.8	1.0	.2	.3	.0	.0	9.1	10.8	11.5
WNW	.4	.5	2.5	2.9	.5	.6	.4	.5	.3	.4	.1	.1	.0	.0	4.3	5.1	10.7
NW	.8	.9	3.1	3.7	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.8	5.7	8.5
NNW	.4	.5	2.6	3.1	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.7	4.4	8.7
CALM	4.9	5.9													4.9	5.9	
TOTAL	15.5	18.3	50.1	59.3	9.3	11.1	5.6	6.6	3.1	3.7	.7	.9	.1	.1	84.4	100	8.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 2 / DAY

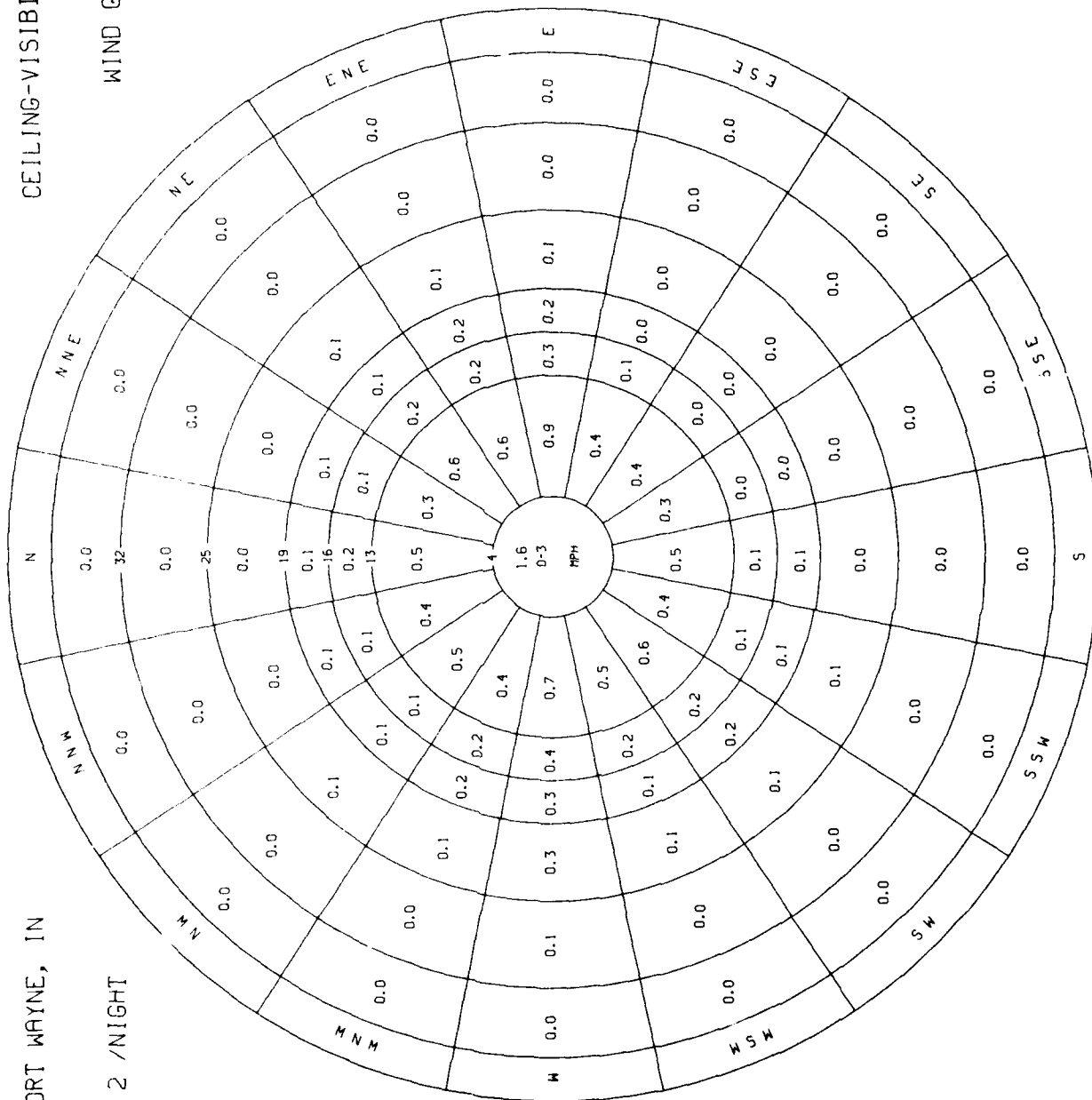
STATION NUMBER: 14827

NO. OBS.: 8167

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.4	.5	2.9	.1	.8	.1	.5	.1	.3	.0	.0	.0	.0	.8 5.0
NNE	.0	.2	.3	1.9	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.5 3.1
NE	.1	.5	.6	3.5	.2	1.0	.1	.7	.1	.3	.0	.1	.0	.0	1.0 6.1
ENE	.0	.3	.7	3.9	.2	1.4	.2	1.0	.1	.6	.0	.1	.0	.0	1.2 7.4
E	.1	.5	.9	5.3	.3	1.6	.2	1.1	.1	.4	.0	.0	.0	.0	1.5 9.0
ESE	.1	.4	.5	2.8	.1	.5	.1	.3	.0	.1	.0	.0	.0	.0	.7 4.1
SE	.1	.5	.4	2.7	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.7 3.9
SSE	.1	.4	.4	2.2	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.6 3.5
S	.1	.4	.6	3.9	.2	1.2	.1	.6	.1	.3	.0	.1	.0	.0	1.1 6.6
SSW	.0	.2	.5	3.0	.2	.9	.1	.8	.1	.6	.0	.1	.0	.0	.9 5.6
SW	.1	.5	.7	4.0	.3	1.6	.2	1.2	.1	.9	.0	.2	.0	.1	1.4 8.5
WSW	.1	.4	.6	3.4	.2	1.4	.2	1.2	.1	.9	.0	.2	.0	.1	1.3 7.6
W	.0	.3	.8	4.6	.3	1.9	.3	1.9	.3	1.5	.1	.5	.0	.1	1.8 10.8
WNW	.0	.2	.4	2.6	.2	1.2	.2	1.0	.2	.9	.0	.2	.0	.0	1.0 6.1
NW	.1	.3	.5	3.0	.2	1.0	.2	.9	.1	.5	.0	.1	.0	.0	1.0 6.0
NNW	.0	.2	.4	2.3	.1	.8	.1	.4	.1	.3	.0	.0	.0	.0	.7 4.0
CALM	.4	2.6													.4 2.6
TOTAL	1.4	8.5	8.7	52.1	2.8	16.9	2.0	12.3	1.3	8.0	.3	1.9	.1	.4	16.6 100
															11.4

CEILING-VISIBILITY
WIND GRAPH

FWA FORT WAYNE, IN
CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: FWA FORT WAYNE, IN

CLASS 2 / NIGHT

NO. OBS.: 6446

STATION NUMBER: 14827

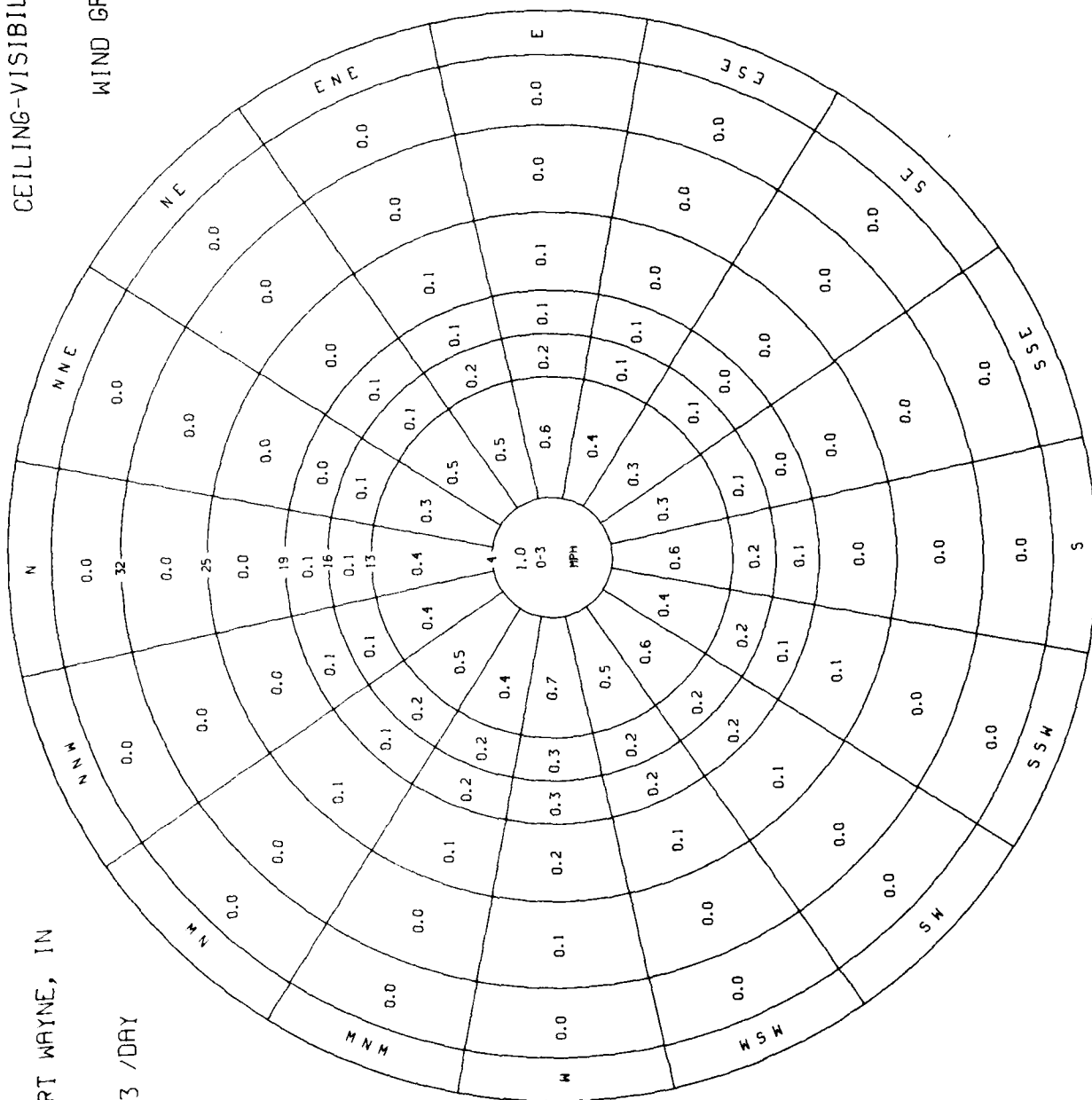
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.4	.5	3.2	.2	1.1	.1	.8	.0	.3	.0	.1	.0	.0	.9 5.9
NNE	.0	.2	.3	2.0	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.5 3.5
NE	.1	.7	.6	3.7	.2	1.0	.1	.6	.1	.5	.0	.1	.0	.0	1.0 6.5
ENE	.1	.3	.6	3.9	.2	1.5	.2	1.1	.1	.7	.0	.2	.0	.0	1.2 7.7
E	.1	.6	.9	5.6	.3	1.7	.2	1.3	.1	.4	.0	.1	.0	.0	1.5 9.6
ESE	.0	.3	.4	2.3	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5 3.2
SE	.1	.4	.4	2.8	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.6 3.7
SSE	.1	.3	.3	2.1	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.5 3.0
S	.1	.4	.5	3.1	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.8 5.4
SSH	.1	.3	.4	2.5	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.8 4.9
SW	.1	.7	.6	3.9	.2	1.3	.2	1.0	.1	.7	.0	.1	.0	.1	1.2 7.8
WSW	.1	.3	.5	3.3	.2	1.2	.1	.9	.1	.9	.0	.2	.0	.1	1.1 6.9
W	.1	.6	.7	4.4	.4	2.4	.3	1.9	.3	1.6	.1	.4	.0	.1	1.8 11.4
WNW	.0	.3	.4	2.9	.2	1.1	.2	1.1	.1	.6	.0	.1	.0	.0	.9 6.0
NW	.1	.6	.5	3.4	.1	.9	.1	.7	.1	.5	.0	.0	.0	.0	1.0 6.2
NNW	.0	.3	.4	2.8	.1	.8	.1	.5	.0	.3	.0	.0	.0	.0	.7 4.7
CALM	.5	3.5													.5 3.5
TOTAL	1.6	10.3	8.1	52.0	2.6	16.4	1.9	12.1	1.2	7.4	.2	1.5	.0	.3	15.6 100

CEILING-VISIBILITY

WIND GRAPH

FWA FORT WAYNE, IN

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

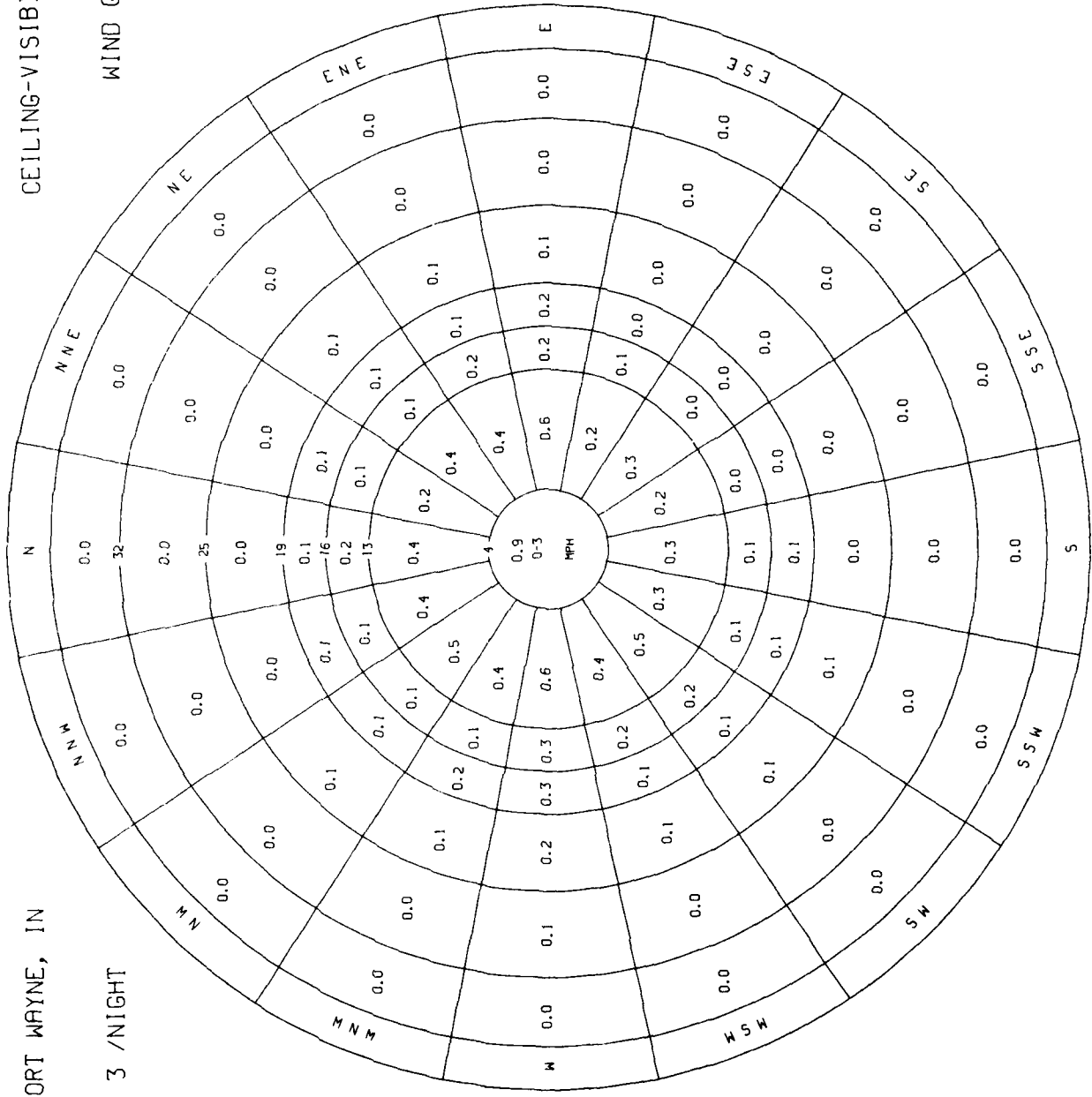
CLASS 3 / DAY

STATION NUMBER: 14827

NO. OBS.: 7043

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.4	.4	3.0	.1	.8	.1	.5	.0	.3	.0	.0	.0	.0	.7 5.1
NNE	.0	.2	.3	1.9	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.5 3.2
NE	.1	.4	.5	3.3	.1	1.0	.1	.8	.0	.3	.0	.1	.0	.0	.9 5.9
ENE	.0	.3	.5	3.5	.2	1.4	.1	1.0	.1	.6	.0	.1	.0	.0	1.0 6.9
E	.1	.4	.6	4.4	.2	1.5	.1	1.0	.1	.4	.0	.1	.0	.0	1.1 7.9
ESE	.0	.3	.4	2.5	.1	.5	.1	.4	.0	.1	.0	.0	.0	.0	.5 3.7
SE	.1	.4	.3	2.4	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.5 3.6
SSE	.0	.3	.3	2.1	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5 3.4
S	.1	.4	.6	3.9	.2	1.3	.1	.7	.0	.3	.0	.1	.0	.0	1.0 6.8
SSW	.0	.2	.4	2.9	.2	1.1	.1	.8	.1	.7	.0	.1	.0	.0	.8 5.8
SW	.1	.4	.6	4.1	.2	1.7	.2	1.3	.1	1.0	.0	.2	.0	.1	1.3 8.8
WSW	.1	.4	.5	3.5	.2	1.5	.2	1.3	.1	1.0	.0	.2	.0	.1	1.1 8.0
W	.0	.3	.7	4.7	.3	2.1	.3	2.1	.2	1.7	.1	.5	.0	.1	1.7 11.5
WNW	.0	.2	.4	2.7	.2	1.3	.2	1.1	.1	1.0	.0	.2	.0	.0	.9 6.5
NW	.0	.2	.5	3.3	.2	1.2	.1	1.0	.1	.6	.0	.1	.0	.0	.9 6.3
NNW	.0	.2	.4	2.5	.1	.8	.1	.4	.0	.3	.0	.0	.0	.0	.6 4.3
CALM	.3	2.2													.3 2.2
TOTAL	1.0	7.3	7.3	50.7	2.6	17.9	1.9	13.2	1.2	8.6	.3	1.8	.1	.4	14.3 100 11.7

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 3 / NIGHT

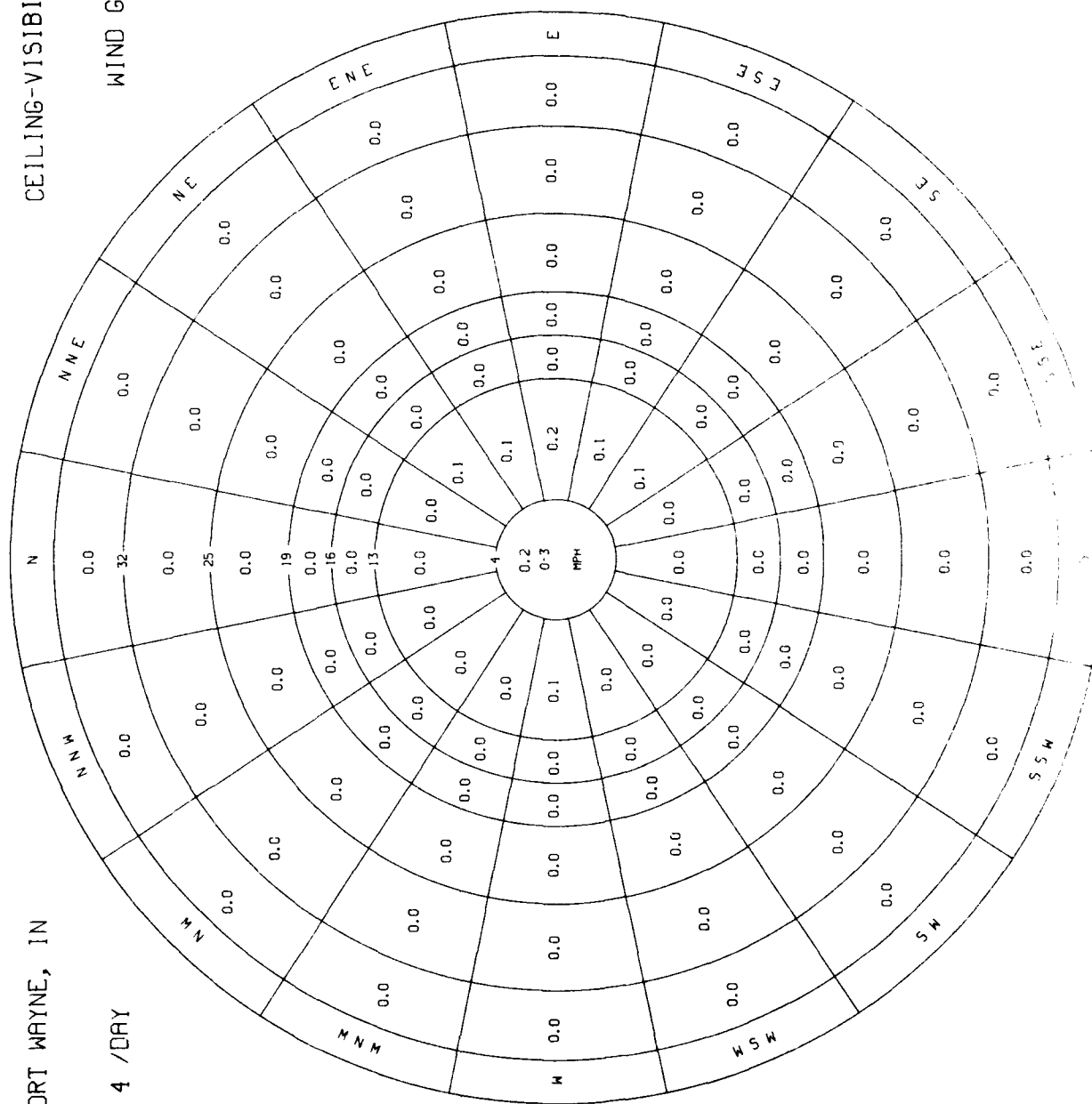
STATION NUMBER: 14827

NO. OBS.: 5106

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.3	.4	3.4	.2	1.3	.1	.9	.0	.3	.0	.1	.0	.0	.8	6.3	11.4
NNE	.0	.2	.2	1.9	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.4	3.6	11.2
NE	.1	.5	.4	3.3	.1	1.1	.1	.7	.1	.4	.0	.0	.0	.0	.7	6.0	11.1
ENE	.0	.3	.4	3.3	.2	1.7	.1	1.1	.1	.8	.0	.2	.0	.0	.9	7.3	12.6
E	.0	.3	.6	4.7	.2	1.7	.2	1.3	.1	.5	.0	.1	.0	.0	1.1	8.7	11.4
ESE	.0	.1	.2	2.0	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.3	2.8	9.7
SE	.0	.2	.3	2.3	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.4	3.0	8.9
SSE	.0	.2	.2	1.9	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.3	2.6	9.6
S	.0	.4	.3	2.7	.1	1.0	.1	.8	.0	.4	.0	.1	.0	.0	.7	5.4	11.4
SSW	.0	.2	.3	2.3	.1	1.0	.1	.8	.1	.5	.0	.1	.0	.0	.6	4.8	12.5
SW	.1	.5	.5	3.9	.2	1.5	.1	1.1	.1	.9	.0	.2	.0	.1	1.0	8.0	12.3
WSW	.0	.2	.4	3.4	.2	1.4	.1	1.1	.1	1.0	.0	.3	.0	.1	.9	7.5	13.3
W	.1	.5	.6	4.9	.3	2.8	.3	2.3	.2	2.0	.1	.5	.0	.1	1.6	13.0	13.9
WNW	.0	.3	.4	3.2	.1	1.2	.2	1.3	.1	.7	.0	.2	.0	.0	.9	6.9	12.9
NW	.1	.4	.5	3.8	.1	1.0	.1	.9	.1	.5	.0	.0	.0	.0	.8	6.7	11.3
NNW	.0	.2	.4	3.1	.1	.9	.1	.6	.0	.3	.0	.0	.0	.0	.6	5.1	11.3
CALM	.3	2.3													.3	2.3	
TOTAL	.9	7.1	6.2	50.0	2.2	18.2	1.7	14.0	1.1	8.6	.2	1.7	.0	.2	12.3	100	11.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: FWA FORT WAYNE, IN

CLASS 4 / DAY

NO. OBS.: 711

STATION NUMBER: 14827

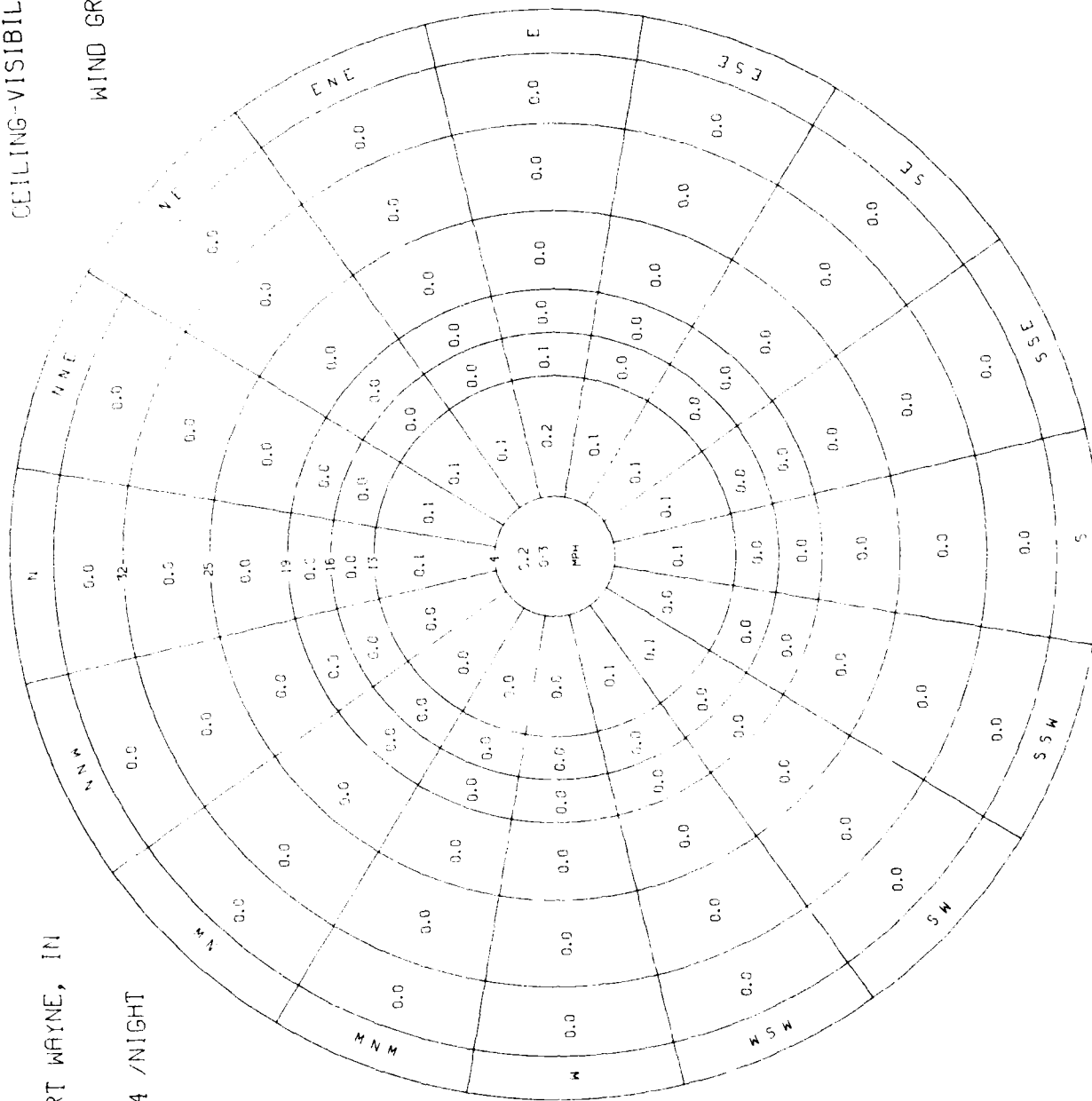
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.0	2.7	.0	1.1	.0	.6	.0	.4	.0	.0	.0	.0	.1 5.2
NNE	.0	.0	.0	2.1	.0	.1	.0	.6	.0	.1	.0	.0	.0	.0	.0 3.0
NE	.0	.4	.1	5.3	.0	1.3	.0	.4	.0	.1	.0	.4	.0	.0	.1 8.0
ENE	.0	.4	.1	6.8	.0	1.8	.0	1.4	.0	1.0	.0	.0	.0	.1	.2 11.5
E	.0	.6	.2	11.1	.0	2.4	.0	2.3	.0	.6	.0	.0	.0	.0	.2 16.9
ESE	.0	.8	.1	4.8	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1 6.3
SE	.0	1.0	.1	3.9	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.1 5.6
SSE	.0	.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.7
S	.0	.1	.0	3.1	.0	1.1	.0	.1	.0	.3	.0	.0	.0	.0	.1 4.8
SSW	.0	.6	.0	2.8	.0	.3	.0	.4	.0	.1	.0	.0	.0	.0	.1 4.2
SW	.0	1.3	.0	3.4	.0	1.1	.0	.4	.0	.3	.0	.3	.0	.1	.1 6.9
WSW	.0	.1	.0	2.5	.0	.7	.0	.4	.0	.3	.0	.3	.0	.0	.1 4.4
W	.0	.1	.1	4.2	.0	1.3	.0	.3	.0	.7	.0	.7	.0	.0	.1 7.3
WNW	.0	.0	.0	1.7	.0	1.0	.0	.6	.0	.1	.0	.0	.0	.0	.0 3.4
NW	.0	.7	.0	1.3	.0	.4	.0	.7	.0	.3	.0	.3	.0	.0	.1 3.7
NNW	.0	.0	.0	.7	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0 1.4
CALM	.1	3.8													.1 3.8
TOTAL	.2	11.3	.9	59.2	.2	14.1	.1	8.6	.1	4.6	.0	2.0	.0	.3	1.4 100
															10.2

CEILING-VISIBILITY

WIND GRAPH

FWA FORT WAYNE, IN

CLASS 4 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 4 / NIGHT

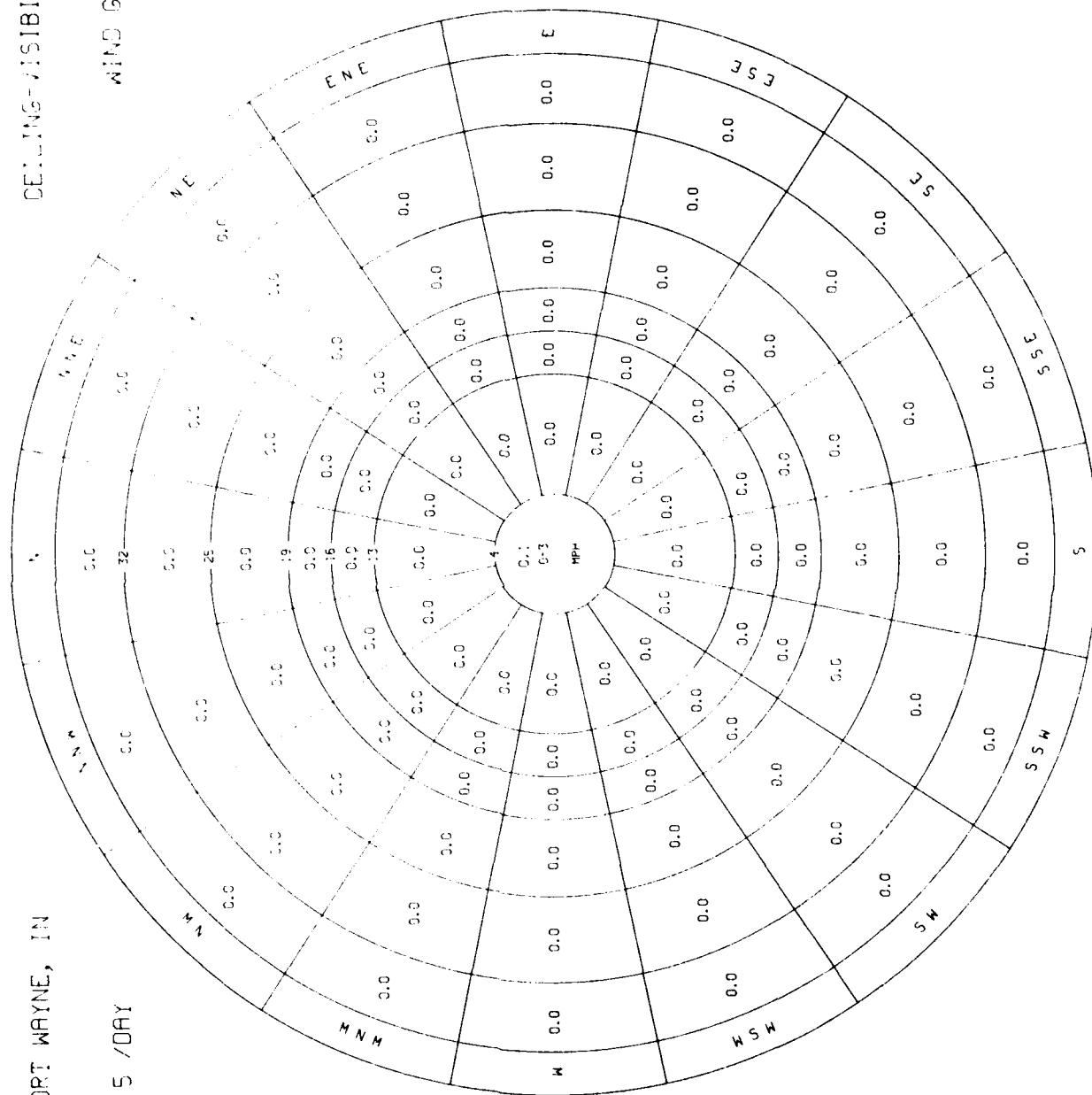
STATION NUMBER: 14827

NO. OBS.: 806

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.1	3.5	.0	.6	.0	.2	.0	.1	.0	.0	.0	.0	.1 5.0
NNE	.0	.0	.1	2.9	.0	.7	.0	.1	.0	.1	.0	.1	.0	.0	.1 4.0
N	.0	.5	.1	6.2	.0	1.0	.0	.7	.0	1.0	.0	.0	.0	.0	.2 9.4
ENE	.0	.4	.1	6.3	.0	1.5	.0	1.4	.0	.6	.0	.1	.0	.0	.2 10.3
E	.0	.7	.2	9.1	.1	2.6	.0	1.2	.0	.2	.0	.0	.0	.0	.3 13.9
ESE	.0	.6	.1	3.7	.0	.5	.0	.4	.0	.0	.0	.0	.0	.0	.1 5.2
SE	.0	.7	.1	6.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.3
SSE	.0	.1	.1	2.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.3
S	.0	.4	.1	4.1	.0	.6	.0	.1	.0	.1	.0	.0	.0	.0	.1 5.3
SSW	.0	.5	.0	2.1	.0	.9	.0	.1	.0	.1	.0	.0	.0	.0	.1 3.7
SW	.0	1.0	.1	4.5	.0	.7	.0	1.1	.0	.2	.0	.1	.0	.0	.1 7.7
WSW	.0	.4	.1	2.6	.0	.9	.0	.4	.0	.4	.0	.1	.0	.0	.1 4.7
W	.0	.9	.0	2.1	.0	1.1	.0	.5	.0	.4	.0	.1	.0	.1	.1 5.2
WNW	.0	.2	.0	2.1	.0	.6	.0	.1	.0	.1	.0	.0	.0	.0	.1 3.2
NW	.0	.2	.0	2.4	.0	.7	.0	.1	.0	.2	.0	.1	.0	.0	.1 3.8
NNW	.0	.5	.0	2.0	.0	.2	.0	.2	.0	.4	.0	.0	.0	.0	.1 3.6
CALM	.1	4.2													.1 4.2
TOTAL	.2	11.9	1.2	62.4	.3	13.6	.1	6.8	.1	4.1	.0	1.0	.0	.1	1.9 100
															9.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: FWA FORT WAYNE, IN

CLASS 5 / DAY

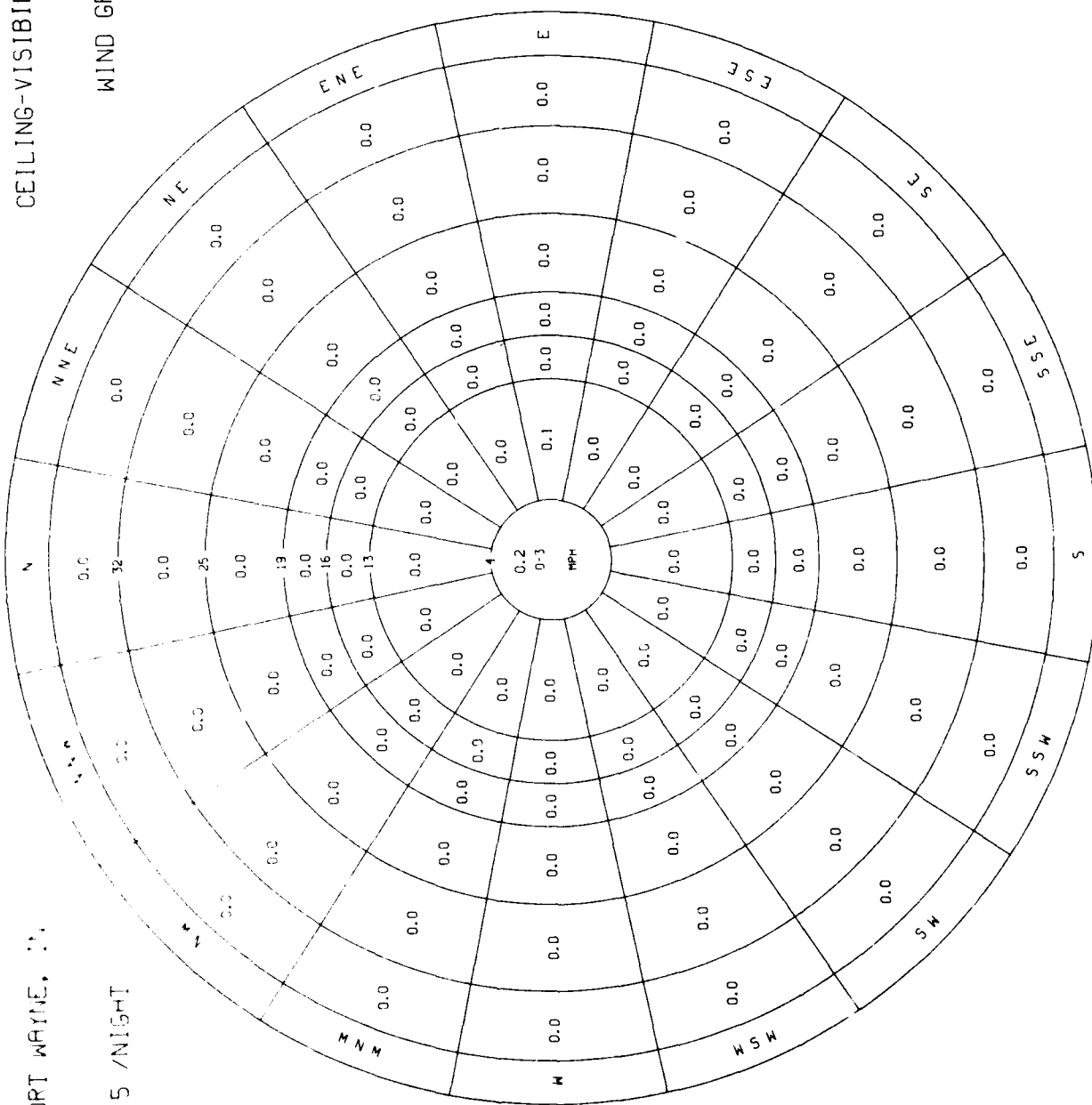
NO. OBS.: 199

STATION NUMBER: 14827

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	2.5	.0	.0	.0	.5	.0	1.0	.0	.5	.0	.0	.0 4.5 13.2
NNE	.0	1.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0 2.0 11.2
NE	.0	.5	.0	4.5	.0	.5	.0	.0	.0	1.0	.0	.5	.0	.0	.0 7.0 11.6
ENE	.0	.5	.0	4.5	.0	2.0	.0	2.0	.0	.5	.0	.0	.0	.0	.0 9.5 12.4
E	.0	2.5	.0	9.0	.0	1.0	.0	.5	.0	.5	.0	.0	.0	.0	.1 13.6 8.5
ESE	.0	.5	.0	5.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0 7.2
SE	.0	2.5	.0	7.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0 10.6 7.2
SSE	.0	1.5	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5 7.0
S	.0	2.0	.0	3.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0 7.4
SSW	.0	.5	.0	3.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0 4.5 8.9
SW	.0	.0	.0	4.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.0 9.0
WSW	.0	1.0	.0	3.5	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0 5.5 10.0
W	.0	.5	.0	2.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0 3.5 8.1
WNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5 7.0
NW	.0	1.0	.0	1.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.5	.0 4.0 12.9
NNW	.0	.5	.0	2.0	.0	.0	.0	.0	.0	1.0	.0	1.5	.0	.5	.0 5.5 17.6
CALM	.0	4.5													.0 4.5
TOTAL	.1	19.1	.2	60.3	.0	5.0	.0	6.0	.0	5.5	.0	3.0	.0	1.0	.4 100 9.4

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: FWA FORT WAYNE, IN

CLASS 5 / NIGHT

NO. OBS.: 254

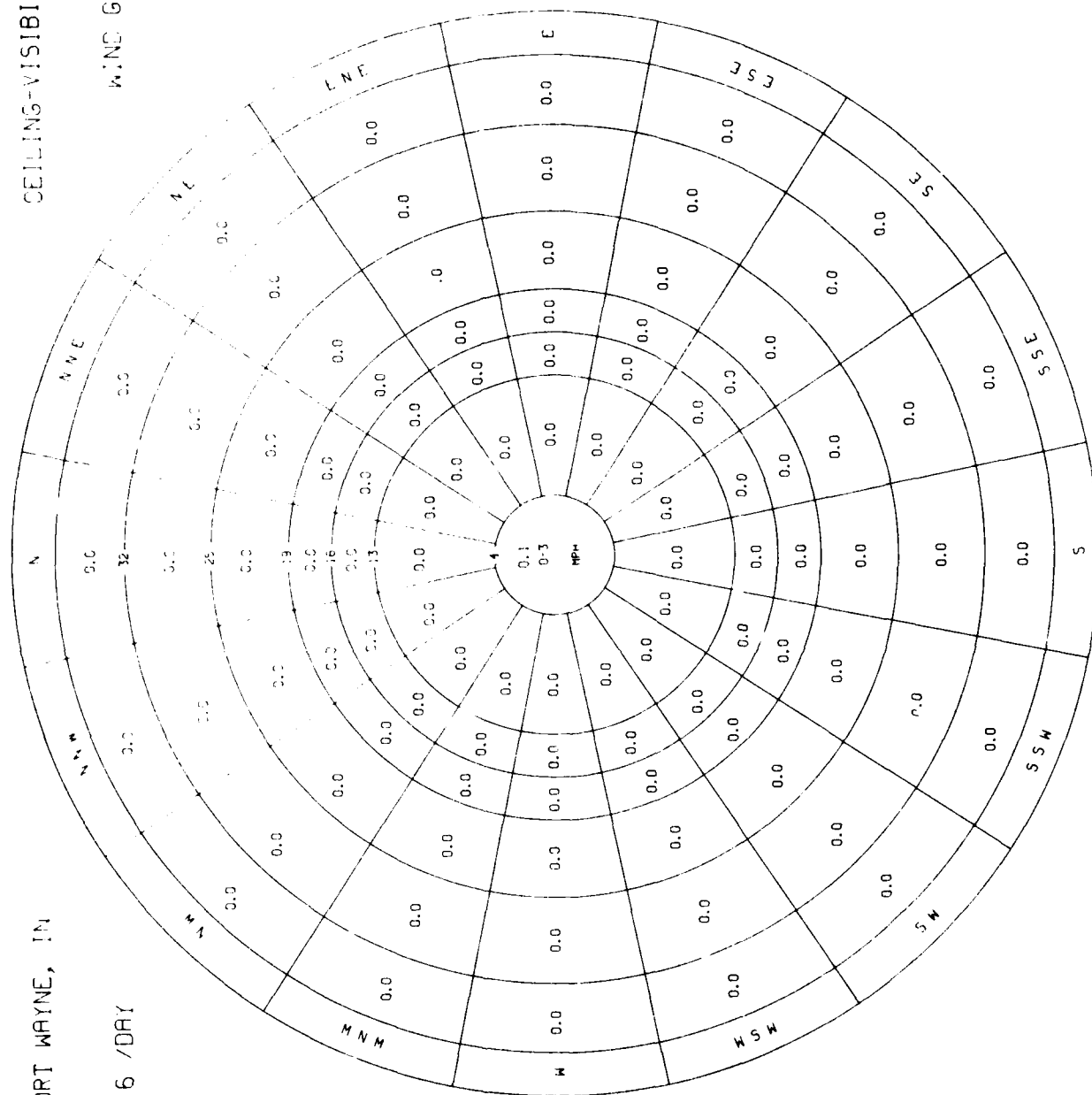
STATION NUMBER: 14827

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.6	.0	2.0	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	4.3	8.2
NNE	.0	.4	.0	2.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.1	9.1
NE	.0	2.8	.0	3.9	.0	.0	.0	.4	.0	.4	.0	.4	.0	.0	.0	7.9	7.1
ENE	.0	1.2	.0	7.5	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	9.1	7.5
E	.0	2.8	.1	9.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	13.4	7.2
ESE	.0	1.2	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.3
SE	.0	1.2	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	5.1
SSE	.0	.8	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	7.9
S	.0	1.2	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	6.4
SSW	.0	.4	.0	5.5	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	7.1	9.7
SW	.0	2.0	.0	3.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	6.3
WSW	.0	.8	.0	2.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.5
W	.0	2.4	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.4	.0	5.1	8.6
WNW	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	9.0
NW	.0	3.5	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	3.6
NNW	.0	.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.9
CALM	.1	12.6													.1	12.6	
TOTAL	.2	35.0	.4	57.9	.0	3.1	.0	2.0	.0	.8	.0	.8	.0	.4	.6	100	6.2

CEILING-VISIBILITY WIND GRAPH

FWA FORT WAYNE, IN

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 6 / DAY

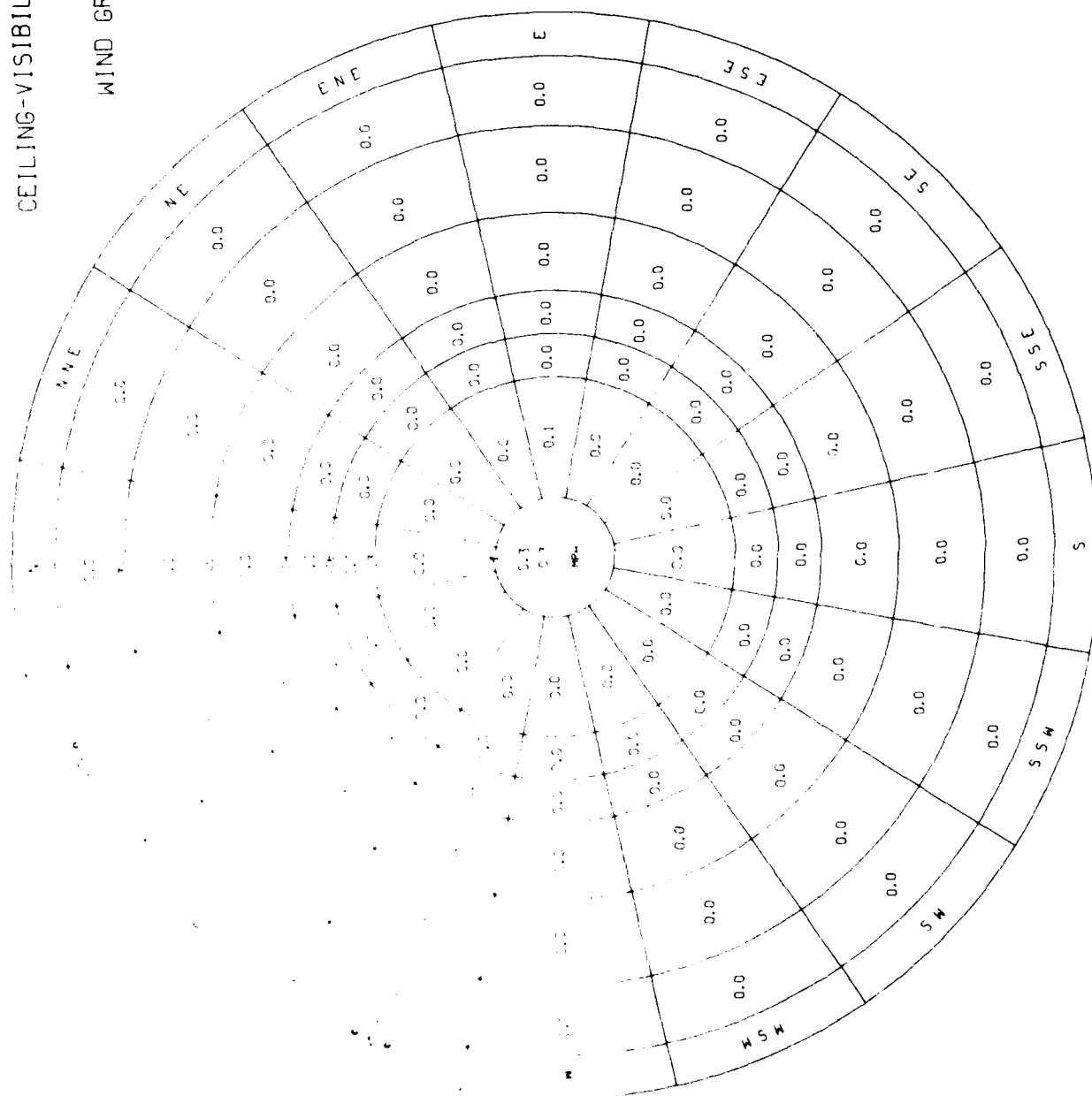
STATION NUMBER: 14827

NO. OBS.: 214

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.0	.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	4.1				
NNE	.0	.5	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	5.7				
NE	.0	.4	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.1				
ENE	.0	.9	.0	7.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	8.1				
E	.0	.4	.0	11.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	13.6	7.1				
ESE	.0	.3	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.1				
SSE	.0	.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	5.3				
S	.0	.4	.0	3.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	7.3				
SSW	.0	.1	.0	5.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.0				
WSW	.0	.0	.0	6.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	7.8				
W	.0	.0	.0	3.7	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.6				
WNW	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	.0	.0	7.9	8.1				
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	4.2	8.3				
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.7				
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	4.2	6.6				
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0				
WSW	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	.0				
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.5	.0	.4	100	6.2				

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14827

NO. OBS.: 280

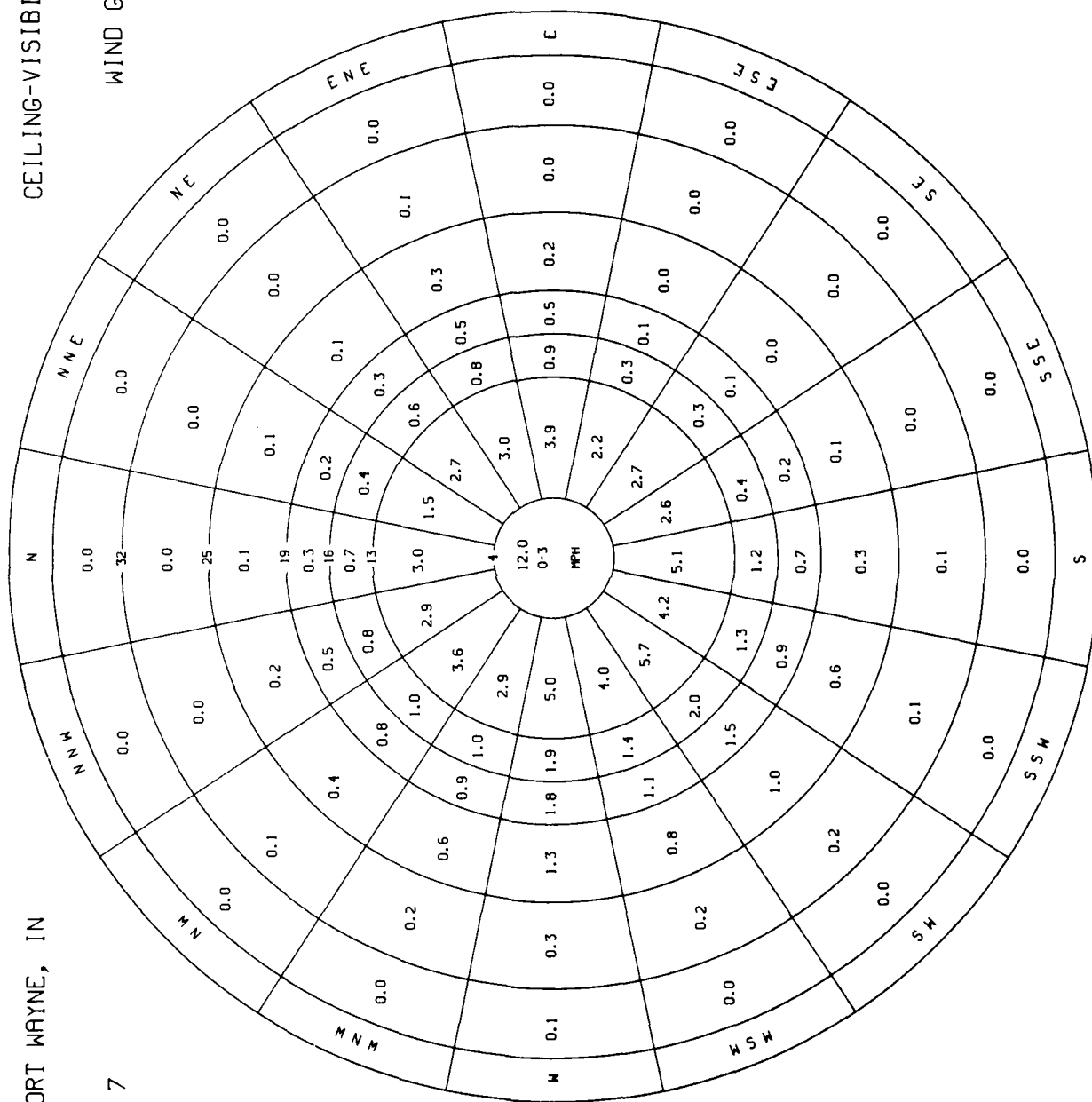
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 2.5
NNE	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7
NE	.0	3.6	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0 7.1
ENE	.0	.7	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.6
E	.0	2.1	.1	7.9	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.1 12.1
ESE	.0	1.4	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.4
SE	.0	2.5	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.7
SSE	.0	2.5	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.8
S	.0	.7	.0	3.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.4
SSW	.0	2.1	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.5
SW	.0	2.9	.0	3.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.8
WSW	.0	1.8	.0	3.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.0 6.1
W	.0	1.8	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0 7.1
WNW	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
NW	.0	1.4	.0	1.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 3.6
NNW	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
CALM	.1	14.3													.1 14.3
TOTAL	.3	41.8	.4	52.1	.0	2.9	.0	1.1	.0	.4	.0	.4	.0	1.4	.7 100
															5.6

CEILING-VISIBILITY

WIND GRAPH

FWA FORT WAYNE, IN

CLASS 7

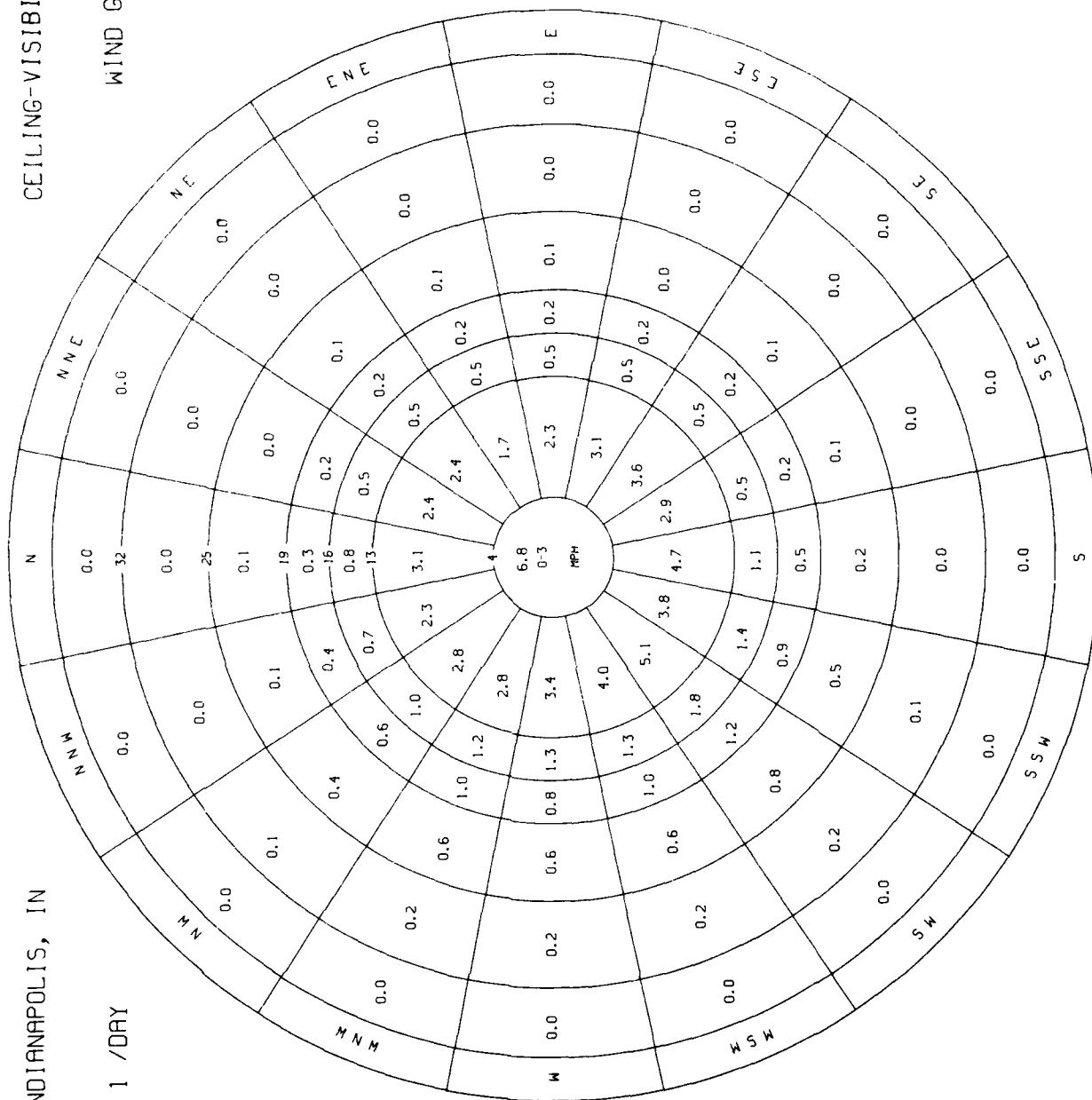


IND INDIANAPOLIS, IN

CEILING-VISIBILITY

CLASS 1 / DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 1 / DAY

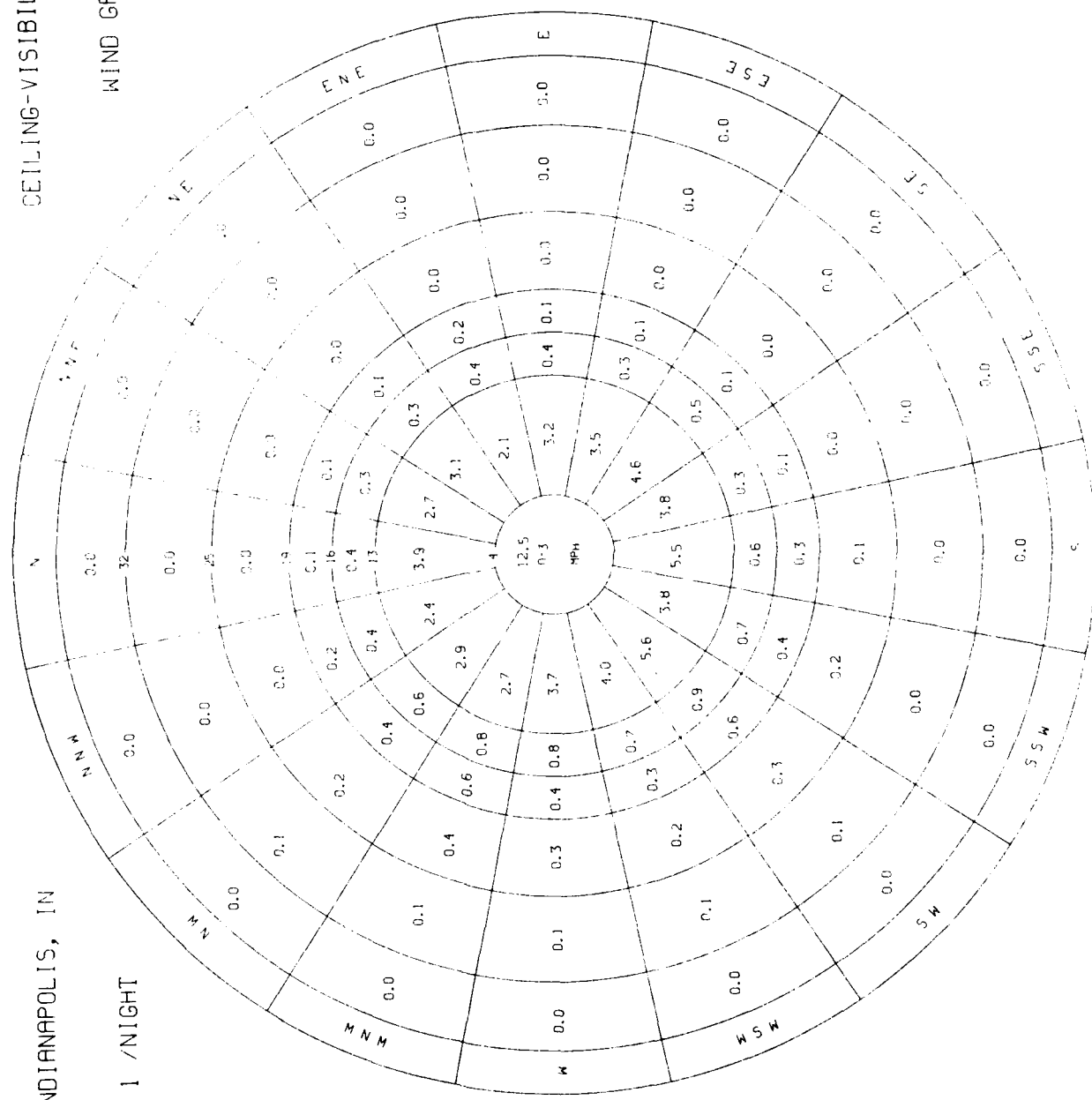
STATION NUMBER: 93819

NO. OBS.: 41659

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.3	.4	3.1	3.6	.8	.9	.3	.3	.1	.1	.0	.0	.0	.0	4.5 5.3 9.6
NNE	.2	.2	2.4	2.8	.5	.6	.2	.2	.0	.0	.0	.0	.0	.0	3.2 3.8 9.5
NE	.3	.4	2.4	2.8	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	3.5 4.2 9.4
ENE	.2	.2	1.7	2.0	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	2.6 3.1 9.8
E	.3	.4	2.3	2.7	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	3.4 4.0 9.4
ESE	.3	.4	3.1	3.7	.5	.6	.2	.2	.0	.1	.0	.0	.0	.0	4.2 5.0 9.0
SE	.4	.5	3.6	4.2	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	4.9 5.7 8.8
SSE	.3	.4	2.9	3.4	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.9 4.6 9.1
S	.5	.6	4.7	5.5	1.1	1.3	.5	.6	.2	.3	.0	.0	.0	.0	7.1 8.4 9.9
SSW	.3	.3	3.8	4.5	1.4	1.6	.9	1.1	.5	.6	.1	.1	.0	.0	7.0 8.2 11.7
SW	.6	.7	5.1	6.0	1.8	2.1	1.2	1.4	.8	1.0	.2	.3	.0	.0	9.7 11.5 11.8
WSW	.4	.5	4.0	4.7	1.3	1.6	1.0	1.1	.6	.7	.2	.3	.0	.0	7.5 8.9 12.0
W	.4	.5	3.4	4.0	1.3	1.5	.8	.9	.6	.7	.2	.2	.0	.0	6.7 7.9 11.9
WNW	.3	.4	2.8	3.3	1.2	1.4	1.0	1.2	.6	.7	.2	.3	.0	.0	6.1 7.2 12.6
NW	.3	.4	2.8	3.3	1.0	1.2	.6	.7	.4	.5	.1	.1	.0	.0	5.3 6.2 11.5
NNW	.2	.3	2.3	2.7	.7	.8	.4	.5	.1	.2	.0	.0	.0	.0	3.8 4.5 10.5
CALM	1.2	1.4													1.2 1.4
TOTAL	6.8	8.0	50.2	59.2	14.0	16.5	8.0	9.5	4.4	5.2	1.2	1.4	.2	.2	84.8 100 10.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

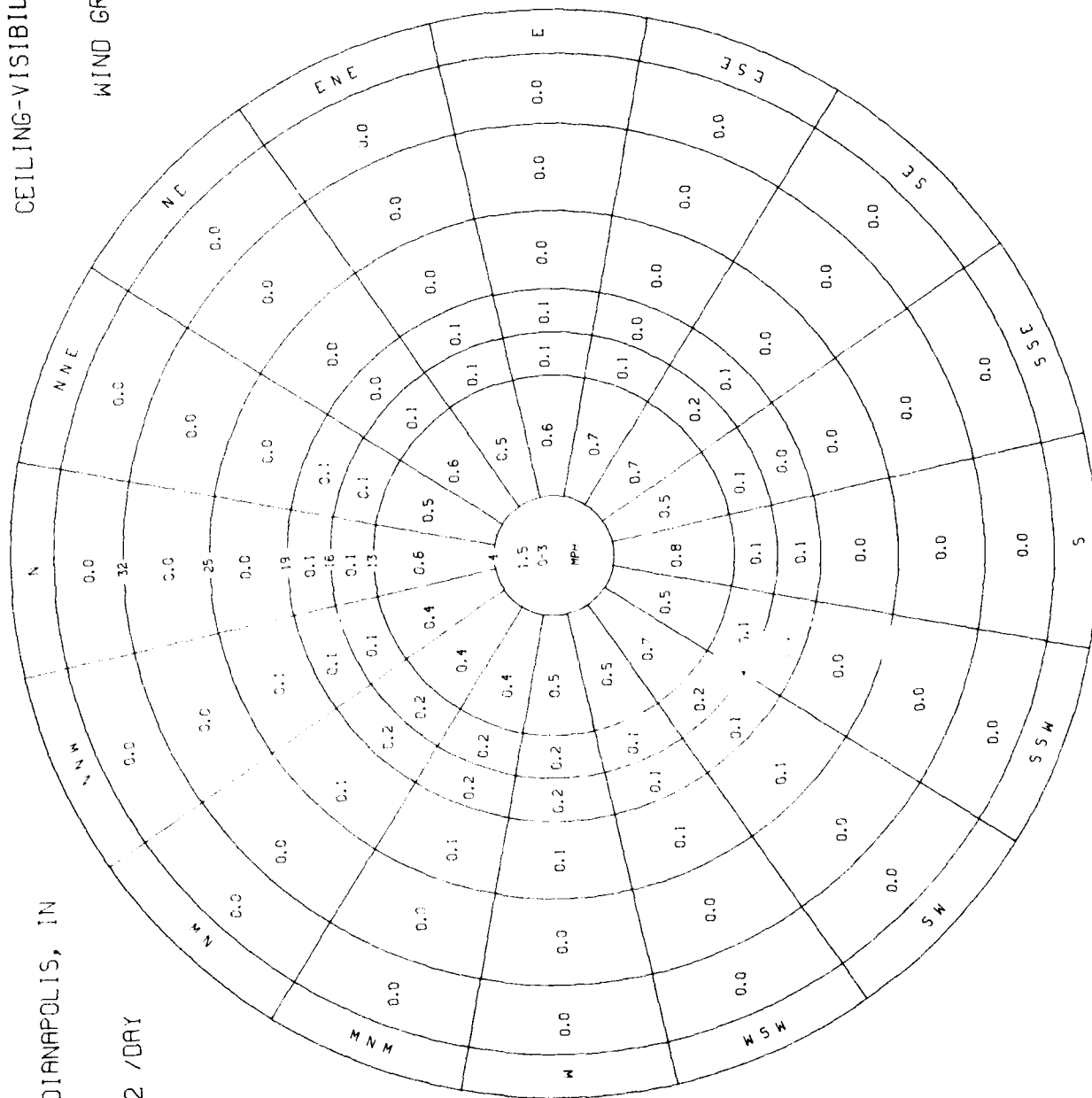
CLASS 1 / NIGHT

STATION NUMBER: 93819

NO. OBS.: 35219

O I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.8	.9	3.9	4.6	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	5.2	6.1	7.6
NNE	.4	.5	2.7	3.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.4	4.0	7.7
NE	.4	.5	3.1	3.6	.3	.4	.1	.2	.0	.1	.0	.0	.0	.0	4.0	4.7	8.2
ENE	.3	.4	2.1	2.5	.4	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.0	3.5	8.8
E	.4	.5	3.2	3.8	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	4.2	4.9	8.3
ESE	.4	.5	3.5	4.1	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	4.4	5.1	8.0
SE	.6	.8	4.6	5.4	.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	5.9	6.9	7.9
SSE	.4	.5	3.8	4.5	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	4.7	5.5	7.9
S	.8	.9	5.5	6.5	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	7.3	8.5	8.2
SSW	.5	.6	3.8	4.5	.7	.8	.4	.4	.2	.2	.0	.1	.0	.0	5.6	6.6	9.4
SW	1.1	1.3	5.6	6.6	.9	1.1	.6	.7	.3	.4	.1	.1	.0	.0	8.6	10.2	9.3
WSW	.7	.8	4.0	4.7	.7	.8	.3	.4	.2	.3	.1	.1	.0	.0	6.0	7.1	9.1
W	.9	1.1	3.7	4.3	.8	1.0	.4	.5	.3	.3	.1	.1	.0	.0	6.2	7.3	9.6
WNW	.6	.8	2.7	3.2	.8	.9	.5	.7	.4	.4	.1	.1	.0	.0	5.2	6.2	10.7
NW	.7	.8	2.9	3.5	.6	.7	.4	.5	.2	.3	.1	.1	.0	.0	5.0	5.9	9.7
NNW	.5	.6	2.4	2.8	.4	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.5	4.1	8.3
CALM	2.9	3.4													2.9	3.4	
TOTAL	12.5	14.8	57.5	67.6	8.3	9.7	4.0	4.7	2.0	2.4	.6	.7	.1	.1	85.0	100	8.4

IND INDIANAPOLIS, IN
 CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

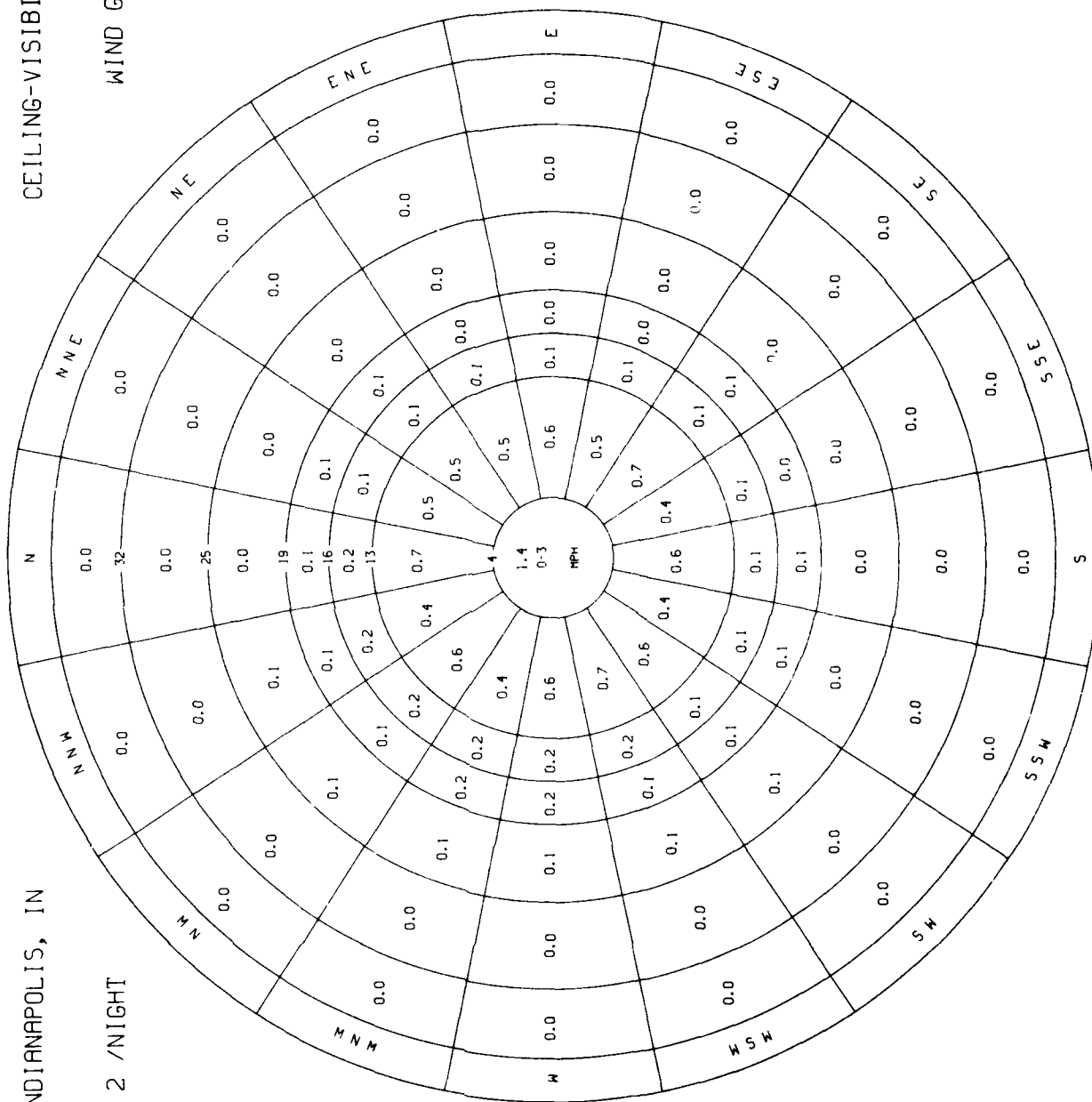
CLASS 2 / DAY

STATION NUMBER: 93819

NO. OBS.: 7448

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.6	3.8	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.9	6.0	10.2
NNE	.0	.2	.5	3.0	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	.7	4.6	10.5
NE	.1	.6	.6	4.2	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.9	6.2	9.4
ENE	.1	.5	.5	3.5	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8	5.5	9.9
E	.1	.6	.6	4.0	.1	.9	.1	.4	.0	.1	.0	.0	.0	.0	.9	6.1	9.5
ESE	.1	.6	.7	4.4	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.9	6.2	9.0
SE	.1	.4	.7	4.5	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	1.0	6.6	9.7
SSE	.1	.4	.5	3.3	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.8	5.0	9.5
S	.1	.8	.8	5.0	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	1.1	7.4	9.2
SSW	.1	.4	.5	3.0	.1	.8	.1	.6	.0	.2	.0	.1	.0	.0	.8	5.0	10.6
SW	.1	.7	.7	4.5	.2	1.1	.1	.6	.1	.4	.0	.1	.0	.0	1.1	7.5	10.3
WSW	.1	.5	.5	3.2	.1	.9	.1	.8	.1	.6	.0	.2	.0	.1	1.0	6.4	12.1
W	.1	.6	.5	3.1	.2	1.4	.2	1.0	.1	.7	.0	.3	.0	.1	1.1	7.2	12.6
WNW	.1	.5	.4	2.6	.2	1.4	.2	1.4	.1	.8	.0	.3	.0	.0	1.1	7.0	13.4
NW	.1	.5	.4	2.7	.2	1.2	.2	1.0	.1	.9	.0	.2	.0	.1	1.0	6.5	13.0
NNW	.1	.3	.4	2.4	.1	.9	.1	.7	.1	.3	.0	.0	.0	.0	.7	4.7	11.7
CALM	.3	2.0													.3	2.0	
TOTAL	1.5	10.2	8.7	57.2	2.4	15.7	1.5	9.8	.8	5.5	.2	1.3	.1	.4	15.2	100	10.5

IND INDIANAPOLIS, IN CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: IND INDIANAPOLIS, IN

CLASS 2 / NIGHT

NO. OBS.: 6211

STATION NUMBER: 93819

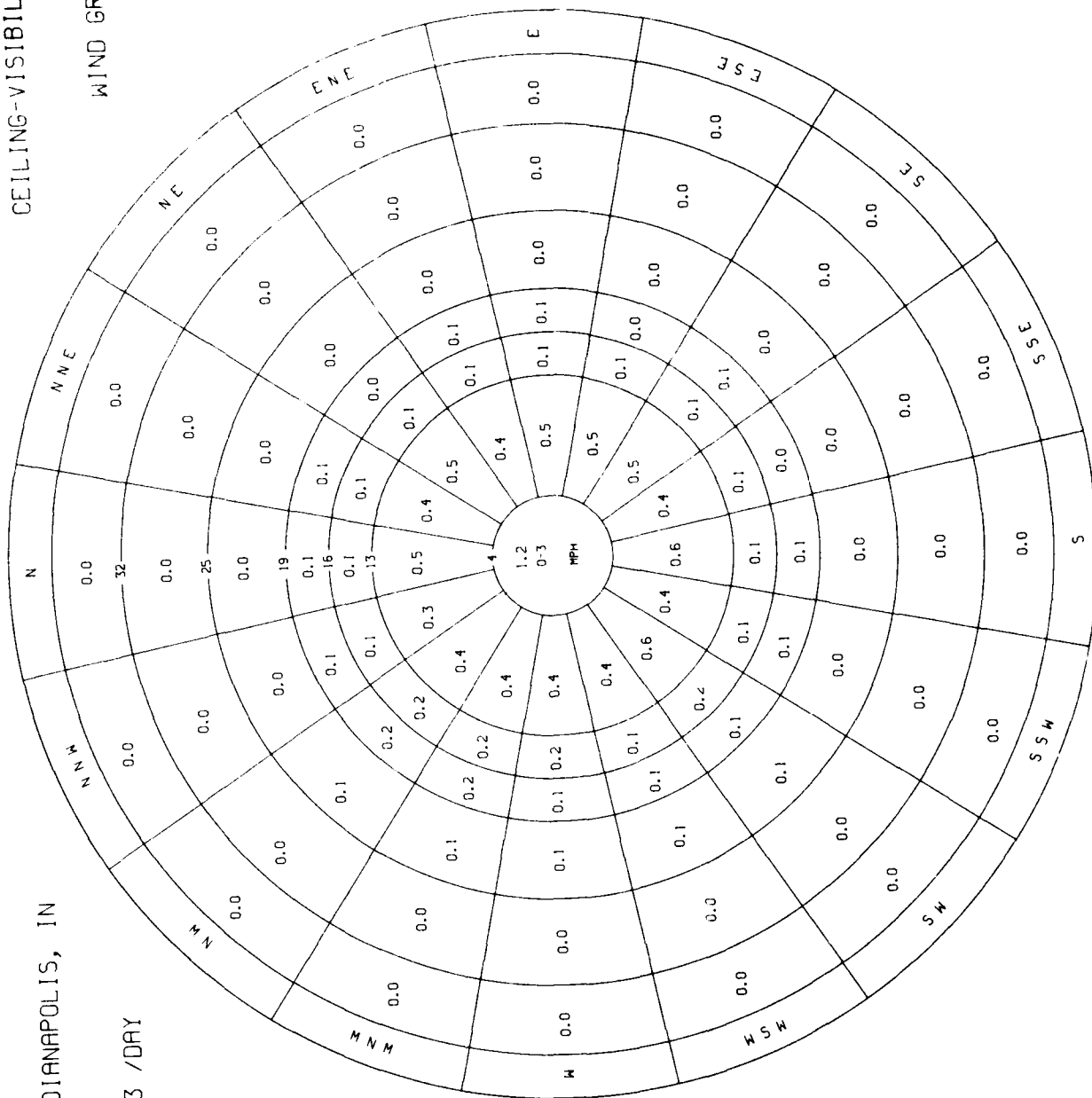
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.6	.7	4.8	.2	1.3	.1	.8	.0	.3	.0	.1	.0	.0	1.2	7.9	10.4
NNE	.0	.3	.5	3.3	.1	.8	.1	.5	.0	.3	.0	.1	.0	.0	.8	5.4	10.8
NNE	.1	.5	.5	3.4	.1	.9	.1	.6	.0	.2	.0	.1	.0	.0	.8	5.7	10.4
ENE	.1	.4	.5	3.2	.1	.9	.0	.2	.0	.3	.0	.0	.0	.0	.8	5.1	10.2
E	.1	.5	.6	4.1	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.9	5.8	9.1
ESE	.1	.4	.5	3.7	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.7	5.0	8.9
SE	.1	.6	.7	4.4	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.9	6.2	8.9
SSE	.0	.3	.4	3.0	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.6	4.1	8.9
S	.1	.5	.6	3.8	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.8	5.5	9.3
SSW	.1	.4	.4	2.6	.1	.7	.1	.4	.0	.3	.0	.0	.0	.0	.7	4.4	10.5
SW	.1	.7	.6	3.9	.1	.9	.1	.8	.1	.5	.0	.1	.0	.0	1.0	6.9	10.8
WSW	.1	.4	.7	4.5	.2	1.0	.1	.7	.1	.5	.0	.3	.0	.0	1.1	7.4	11.1
W	.1	.5	.6	4.1	.2	1.4	.2	1.2	.1	.5	.0	.3	.0	.0	1.2	8.1	11.8
WNW	.1	.4	.4	3.0	.2	1.5	.2	1.2	.1	.9	.0	.3	.0	.1	1.1	7.4	13.4
NW	.1	.3	.6	3.7	.2	1.6	.1	1.0	.1	.7	.0	.2	.0	.0	1.1	7.6	12.4
NNW	.1	.4	.4	2.9	.2	1.2	.1	.7	.1	.4	.0	.1	.0	.0	.9	5.7	11.7
CALM	.3	1.9													.3	1.9	
TOTAL	1.4	9.1	8.8	58.4	2.3	15.6	1.4	9.5	.8	5.6	.2	1.6	.0	.3	15.0	100	10.5

CEILING-VISIBILITY

WIND GRAPH

IND INDIANAPOLIS, IN

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 3 / DAY

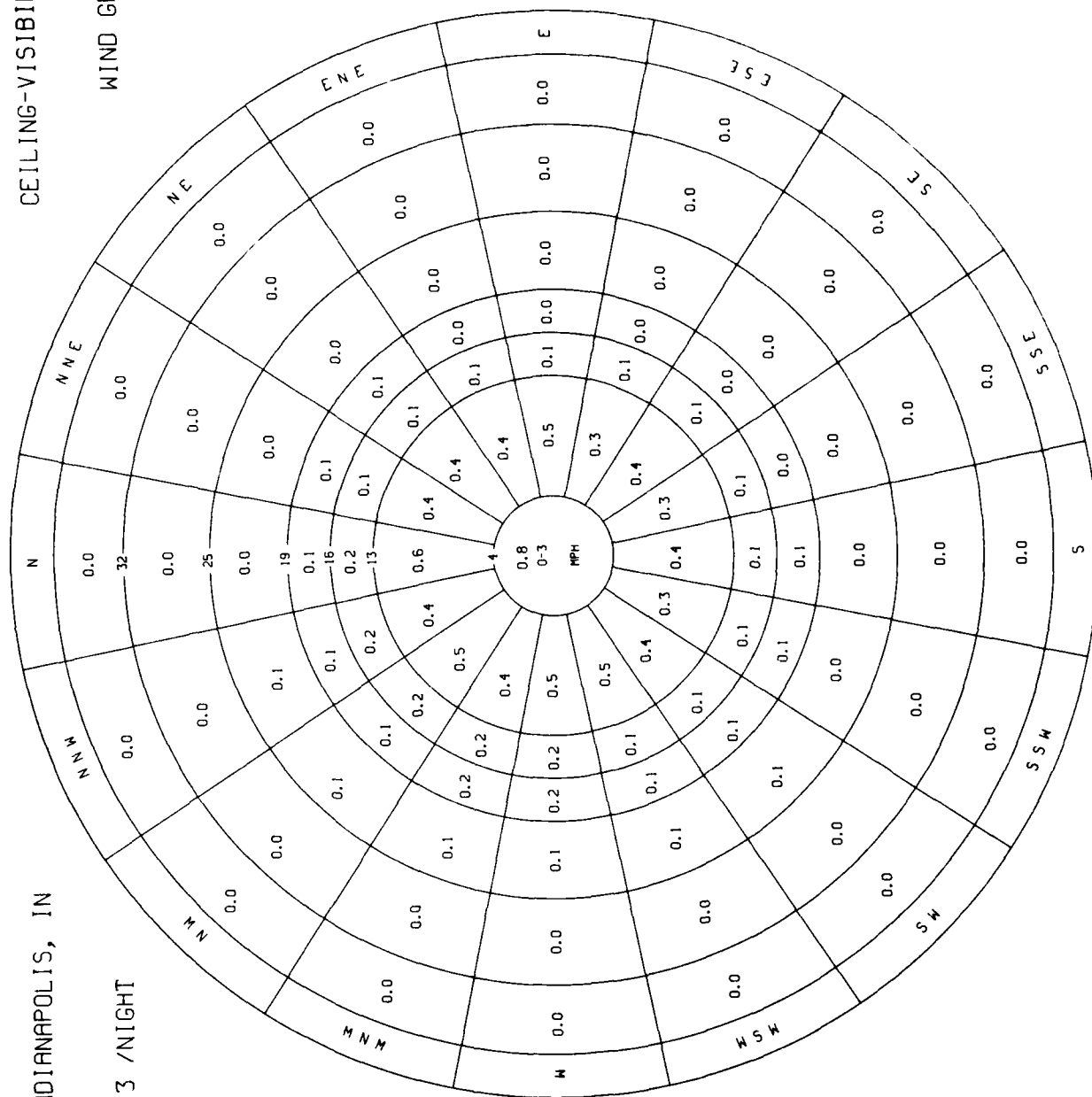
STATION NUMBER: 93819

NO. OBS.: 6307

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.5	.5	3.9	.1	1.0	.1	.6	.0	.1	.0	.0	.0	.0	.8	6.2	10.1
NNE	.0	.2	.4	3.1	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	.6	4.8	10.4
NE	.1	.5	.5	4.2	.1	.9	.0	.3	.0	.3	.0	.0	.0	.0	.8	6.1	9.6
ENE	.1	.5	.4	3.4	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.5	10.2
E	.1	.6	.5	3.7	.1	.9	.1	.4	.0	.1	.0	.0	.0	.0	.7	5.8	9.6
ESE	.1	.5	.5	3.8	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.7	5.5	9.2
SE	.0	.4	.5	3.7	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.7	5.7	10.0
SSE	.0	.3	.4	2.9	.1	.8	.0	.3	.0	.2	.0	.0	.0	.0	.6	4.5	9.9
S	.1	.7	.6	4.8	.1	1.0	.1	.5	.0	.3	.0	.0	.0	.0	.9	7.3	9.6
SSW	.0	.3	.4	2.9	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.7	5.1	11.1
SW	.1	.5	.6	4.4	.2	1.3	.1	.6	.1	.4	.0	.1	.0	.0	1.0	7.4	10.8
WSW	.1	.5	.4	3.2	.1	1.0	.1	.9	.1	.7	.0	.2	.0	.1	.9	6.7	12.6
W	.1	.6	.4	3.3	.2	1.6	.1	1.2	.1	.8	.0	.3	.0	.1	1.0	7.8	12.8
WNW	.1	.5	.4	2.8	.2	1.6	.2	1.6	.1	1.0	.0	.3	.0	.0	1.0	7.7	13.5
NW	.1	.5	.4	2.8	.2	1.3	.2	1.2	.1	.9	.0	.2	.0	.1	.9	7.0	13.2
NNW	.0	.3	.3	2.5	.1	1.0	.1	.7	.0	.3	.0	.0	.0	.0	.6	4.9	11.9
CALM	.2	1.8													.2	1.8	
TOTAL	1.2	9.1	7.1	55.5	2.2	16.8	1.4	10.7	.8	6.1	.2	1.4	.0	.3	12.8	100	10.8

CEILING-VISIBILITY WIND GRAPH

IND INDIANAPOLIS, IN
CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1941-1950

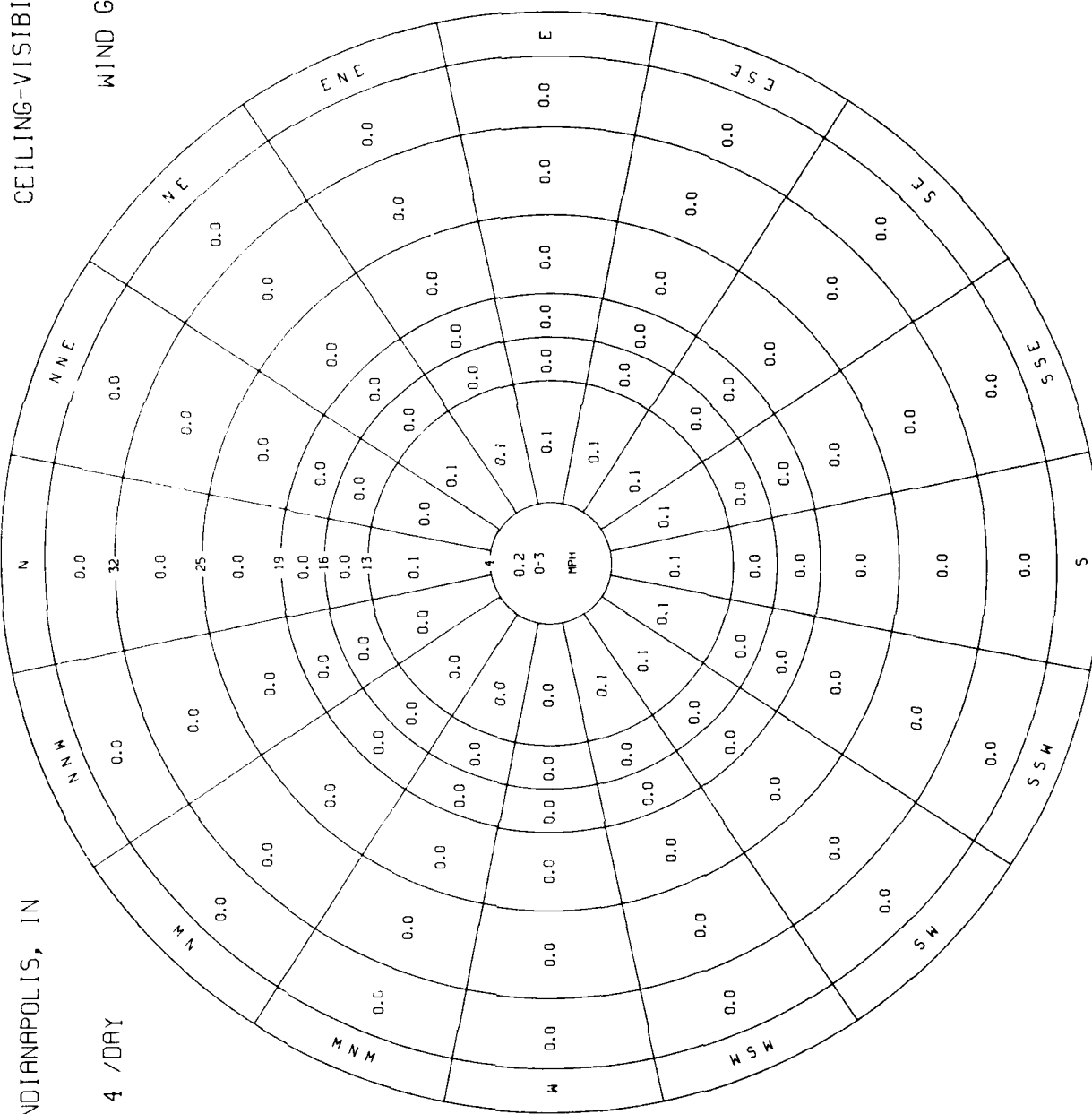
CLASS 3 / NIGHT

STATION NUMBER: 93819

NO. OBS.: 4000

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.4	.6	5.0	.2	1.5	.1	1.0	.0	.3	.0	.1	.0	.0	1.0	8.2	10.8
NNE	.0	.3	.4	3.4	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.7	5.6	10.7
NE	.1	.4	.4	3.6	.1	1.0	.1	.6	.0	.2	.0	.1	.0	.0	.7	5.9	10.7
ENE	.0	.3	.4	3.4	.1	1.1	.0	.3	.0	.4	.0	.0	.0	.0	.6	5.4	10.6
E	.1	.5	.5	4.1	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.7	5.8	9.2
ESE	.0	.3	.3	2.9	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.5	4.2	9.4
SE	.1	.5	.4	3.1	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.6	4.7	9.3
SSE	.0	.2	.3	2.2	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4	3.2	9.8
S	.0	.4	.4	3.4	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.6	5.1	10.1
SSW	.0	.2	.3	2.5	.1	.8	.1	.4	.0	.3	.0	.0	.0	.0	.5	4.2	11.2
SW	.1	.5	.4	3.6	.1	.9	.1	.9	.1	.7	.0	.1	.0	.0	.8	6.7	11.6
WSW	.0	.3	.5	4.0	.1	1.2	.1	.8	.1	.7	.0	.3	.0	.0	.9	7.2	12.0
W	.1	.5	.5	4.5	.2	1.7	.2	1.5	.1	.7	.0	.3	.0	.0	1.1	9.2	12.2
WNW	.0	.3	.4	3.2	.2	1.9	.2	1.5	.1	1.2	.0	.3	.0	.1	1.0	8.4	14.0
NW	.0	.3	.5	4.0	.2	1.9	.1	1.1	.1	.9	.0	.3	.0	.0	1.0	8.5	12.9
NNW	.0	.3	.4	3.1	.2	1.4	.1	.9	.1	.4	.0	.1	.0	.0	.7	6.1	12.0
CALM	.2	1.4													.2	1.4	
TOTAL	.8	7.0	6.6	55.8	2.1	17.5	1.3	11.0	.8	6.7	.2	1.7	.0	.3	11.9	100	11.1

CEILING-VISIBILITY WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 93819

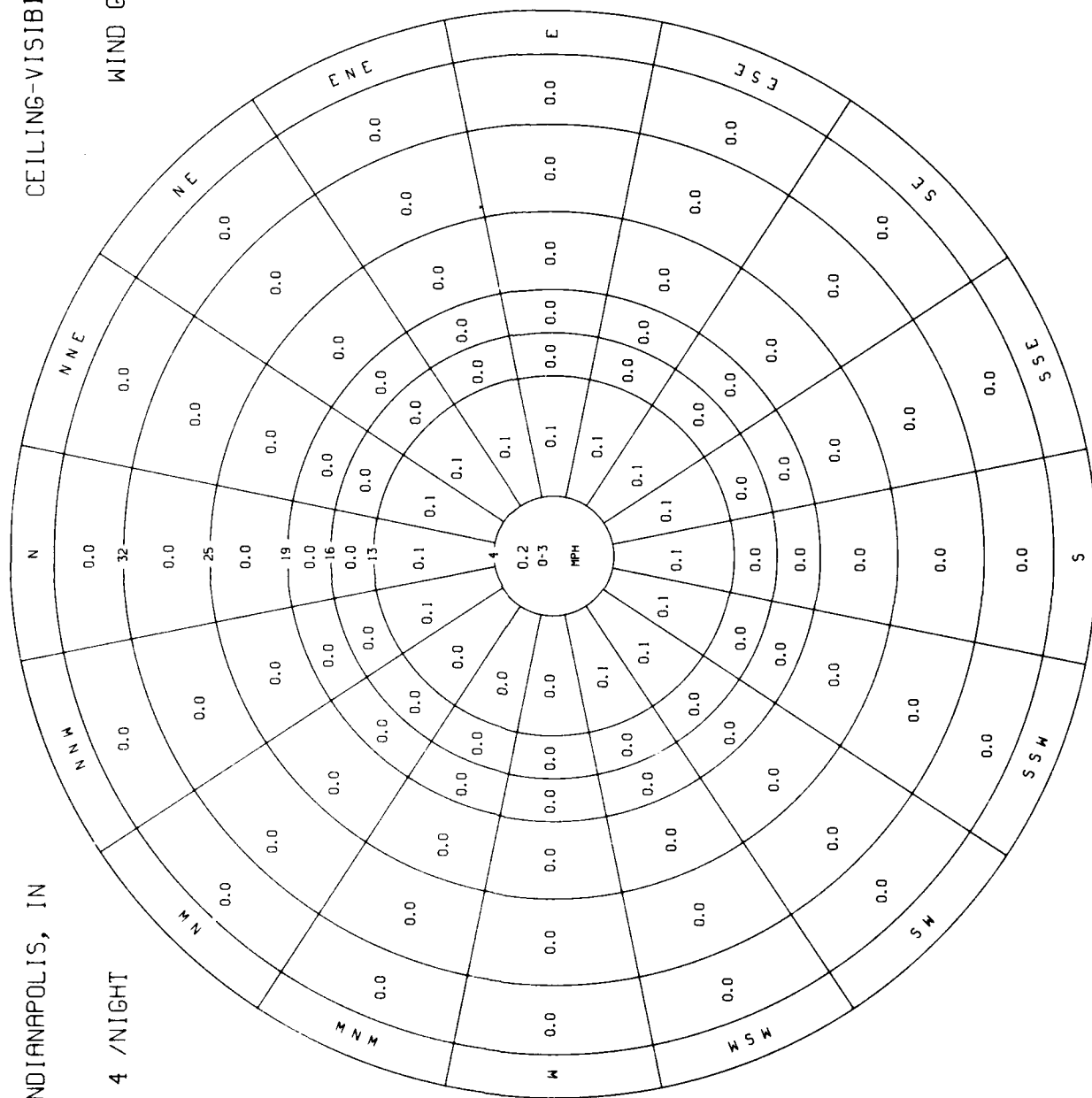
NO. OBS.: 772

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.5	.1	3.9	.0	.9	.0	.6	.0	.5	.0	.0	.0	.0	.0	.1	6.5	10.5
NNE	.0	.0	.0	2.2	.0	.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	3.6	11.0
NE	.0	.6	.1	5.4	.0	1.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.1	7.5	8.9
ENE	.0	.0	.1	3.9	.0	.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	5.3	9.9
E	.0	.8	.1	5.7	.0	1.4	.0	.6	.0	.3	.0	.0	.0	.0	.0	.1	8.8	9.7
ESE	.0	.6	.1	8.3	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	10.0	8.3
SE	.0	.4	.1	8.3	.0	1.3	.0	.5	.0	.3	.0	.0	.0	.0	.0	.2	10.8	9.5
SSE	.0	.5	.1	5.4	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	7.1	9.1
S	.0	1.2	.1	5.7	.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	7.8	7.1
SSW	.0	.4	.1	3.8	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	4.5	8.2
SW	.0	1.6	.1	4.5	.0	.3	.0	.4	.0	.1	.0	.0	.0	.0	.0	.1	6.9	8.0
WSW	.0	.6	.1	3.2	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	4.7	8.1
W	.0	.8	.0	2.2	.0	.1	.0	.3	.0	.1	.0	.1	.0	.1	.0	.1	3.9	11.1
WNW	.0	.3	.0	1.7	.0	.5	.0	.4	.0	.3	.0	.1	.0	.0	.0	.1	3.2	11.5
NW	.0	.4	.0	1.7	.0	.6	.0	.3	.0	.5	.0	.1	.0	.1	.0	.3	1	13.4
NNW	.0	.5	.0	2.1	.0	.9	.0	.4	.0	.3	.0	.0	.0	.0	.0	.1	4.1	9.9
CALM	.0	1.4														.0	1.4	
TOTAL	.2	10.6	1.1	68.0	.2	11.8	.1	6.2	.0	2.5	.0	.4	.0	.5	.0	1.6	100	9.2

IND INDIANAPOLIS, IN

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: IND INDIANAPOLIS, IN

CLASS 4 / NIGHT

NO. OBS.: 764

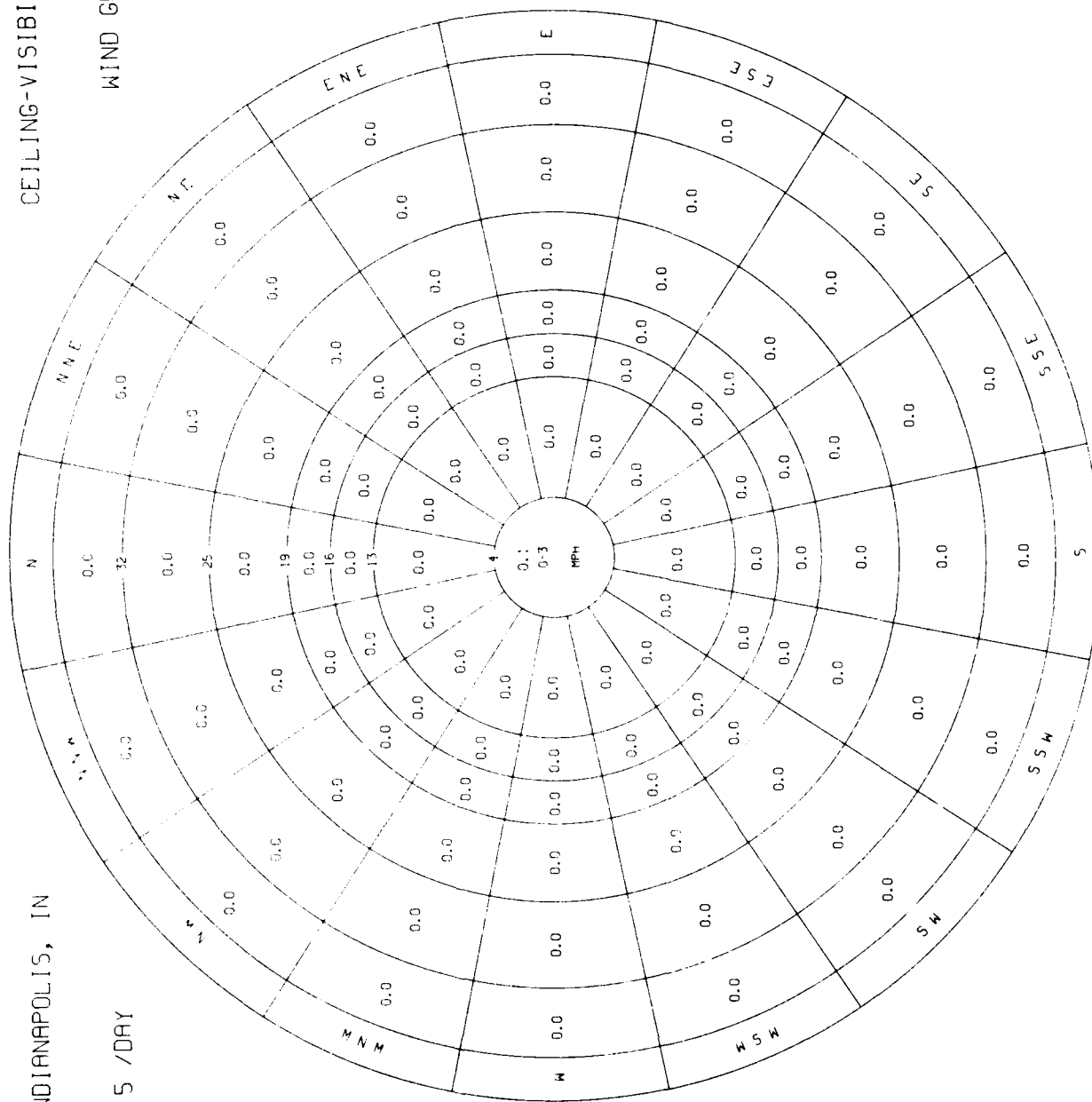
STATION NUMBER: 93819

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.0	.1	5.5	.0	.9	.0	.4	.0	.3	.0	.1	.0	.0	.2 8.2
NNE	.0	.1	.1	3.9	.0	.5	.0	.9	.0	.5	.0	.4	.0	.0	.1 6.4
NE	.0	.4	.1	3.7	.0	.8	.0	.9	.0	.0	.0	.0	.0	.0	.1 5.8
ENE	.0	.4	.1	2.9	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1 3.9
E	.0	.1	.1	4.7	.0	1.2	.0	.0	.0	.0	.0	.1	.0	.0	.1 6.2
ESE	.0	.4	.1	5.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1 6.9
SE	.0	.7	.1	7.9	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.2 9.4
SSE	.0	.8	.1	4.3	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.1 6.2
S	.0	.4	.1	4.7	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1 5.8
SSW	.0	.7	.1	3.8	.0	.5	.0	.7	.0	.4	.0	.1	.0	.0	.1 6.2
SW	.0	1.4	.1	4.8	.0	.9	.0	.4	.0	.1	.0	.0	.0	.0	.1 7.7
WSW	.0	.4	.1	7.5	.0	.5	.0	.4	.0	.1	.0	.0	.0	.0	.2 8.9
W	.0	.3	.0	2.6	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.1 3.4
WNW	.0	.1	.0	2.2	.0	.5	.0	.1	.0	.0	.0	.0	.0	.1	.1 3.1
NW	.0	.4	.0	2.5	.0	.8	.0	.5	.0	.1	.0	.0	.0	.0	.1 4.3
NNW	.0	.9	.1	3.3	.0	.7	.0	.3	.0	.0	.0	.4	.0	.0	.1 5.5
CALM	.0	2.1													.0 2.1
TOTAL	.2	10.6	1.3	69.9	.2	10.9	.1	5.4	.0	1.8	.0	1.3	.0	.1	1.8 10.0

IND INDIANAPOLIS, IN

CLASS 5 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 93219

NO. OBS.: 167

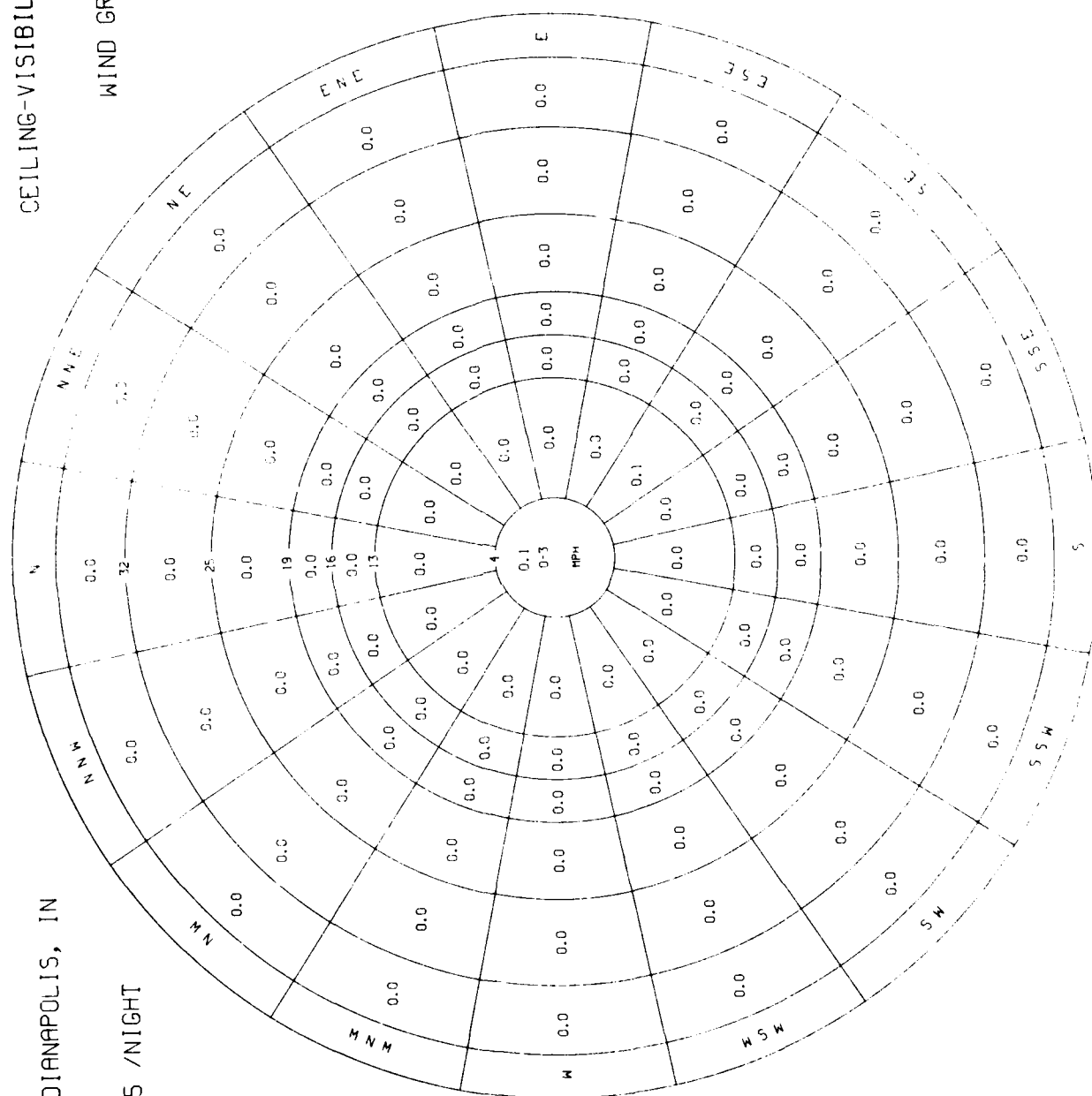
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	3.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.6	.0	4.8	13.6
NNE	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	9.4
NE	.0	.0	.0	3.0	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.6	.0	5.4	12.7
ENE	.0	1.2	.0	3.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.3
E	.0	1.2	.0	4.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.2
ESE	.0	1.8	.0	7.8	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	10.8	8.1
SE	.0	.6	.0	9.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.4	8.4
SSE	.0	1.8	.0	6.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	6.6
S	.0	1.8	.0	7.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	6.7
SSW	.0	1.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.0
SW	.0	3.0	.0	7.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.2	5.4
WSW	.0	.6	.0	2.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.8
W	.0	1.2	.0	2.4	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	4.2	7.9
WNW	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	2.4	15.2
NW	.0	.6	.0	3.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	4.8	9.1
NNW	.0	.6	.0	2.4	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	.0	4.2	12.4
CALM	.0	2.4														.0	2.4	
TOTAL	.1	19.8	.2	66.5	.0	6.0	.0	1.8	.0	3.0	.0	1.2	.0	1.8	.0	3	100	8.2

CEILING-VISIBILITY

WIND GRAPH

IND INDIANAPOLIS, IN

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: IND INDIANAPOLIS, IN

CLASS 5 / NIGHT

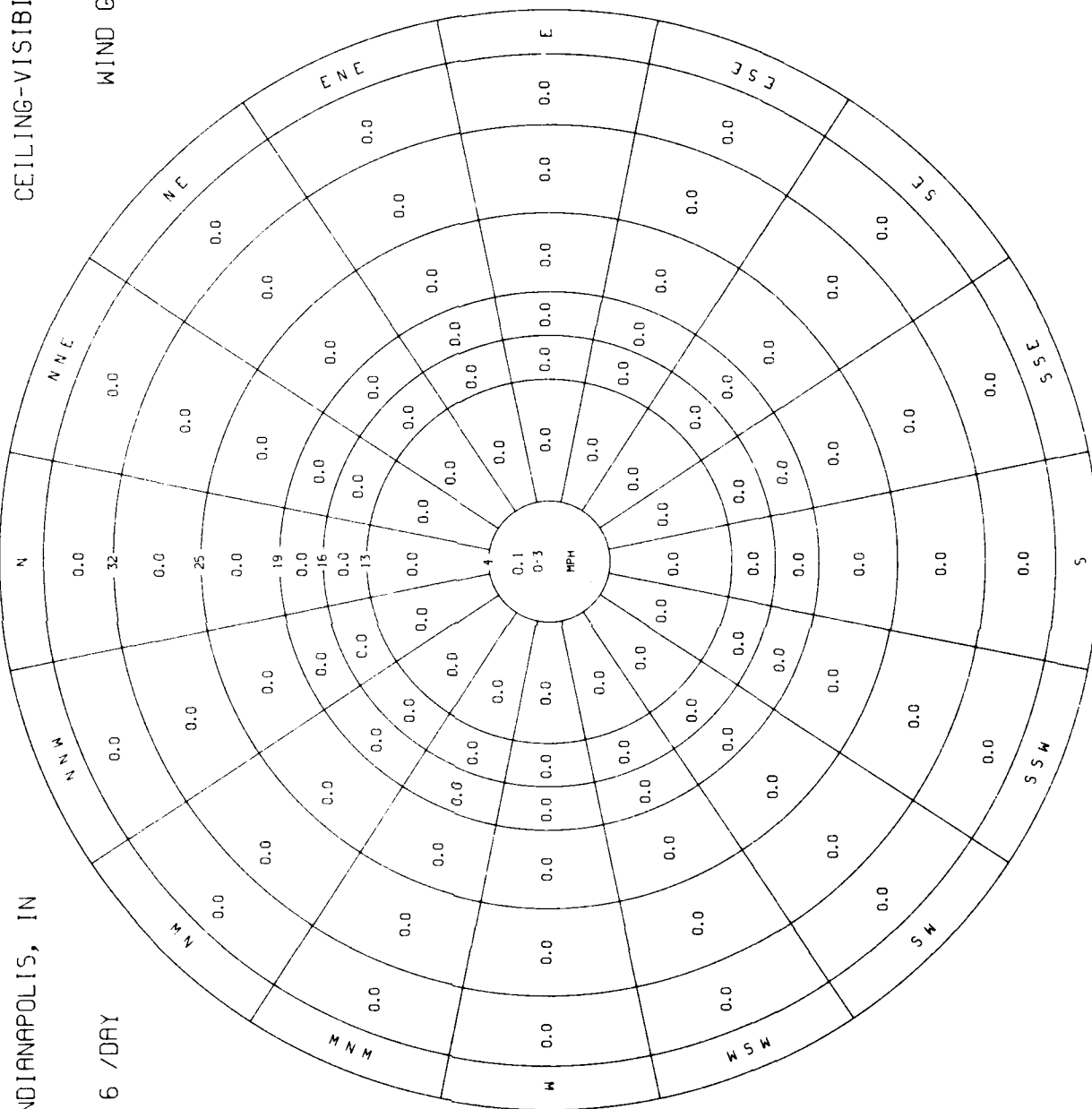
NO. OBS.: 255

STATION NUMBER: 93819

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.2	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 6.3 6.6
NNE	.0	.0	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4 10.5
NE	.0	.4	.0	2.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5 8.4
ENE	.0	.8	.0	2.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5 7.0
E	.0	1.6	.0	3.9	.0	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0 6.7 8.6
ESE	.0	.8	.0	5.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.1 7.0
SE	.0	2.0	.1	11.8	.0	1.6	.0	1.2	.0	.0	.0	.0	.0	.1	.1 16.5 8.9
SSE	.0	.8	.0	7.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.4 7.3
S	.0	.8	.0	5.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.1 7.6
SSW	.0	1.2	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.1 5.9
SW	.0	1.6	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.7 6.1
WSW	.0	.4	.0	4.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.1 7.9
W	.0	.8	.0	3.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.5 10.1
WNW	.0	1.6	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9 7.2
NW	.0	.8	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 5.9 7.4
NNW	.0	.4	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0 13.0
CALM	.0	5.5													.0 5.5
TOTAL	.1	20.4	.4	68.2	.0	7.1	.0	2.7	.0	.0	.0	.8	.0	.6	100 7.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 6 / DAY

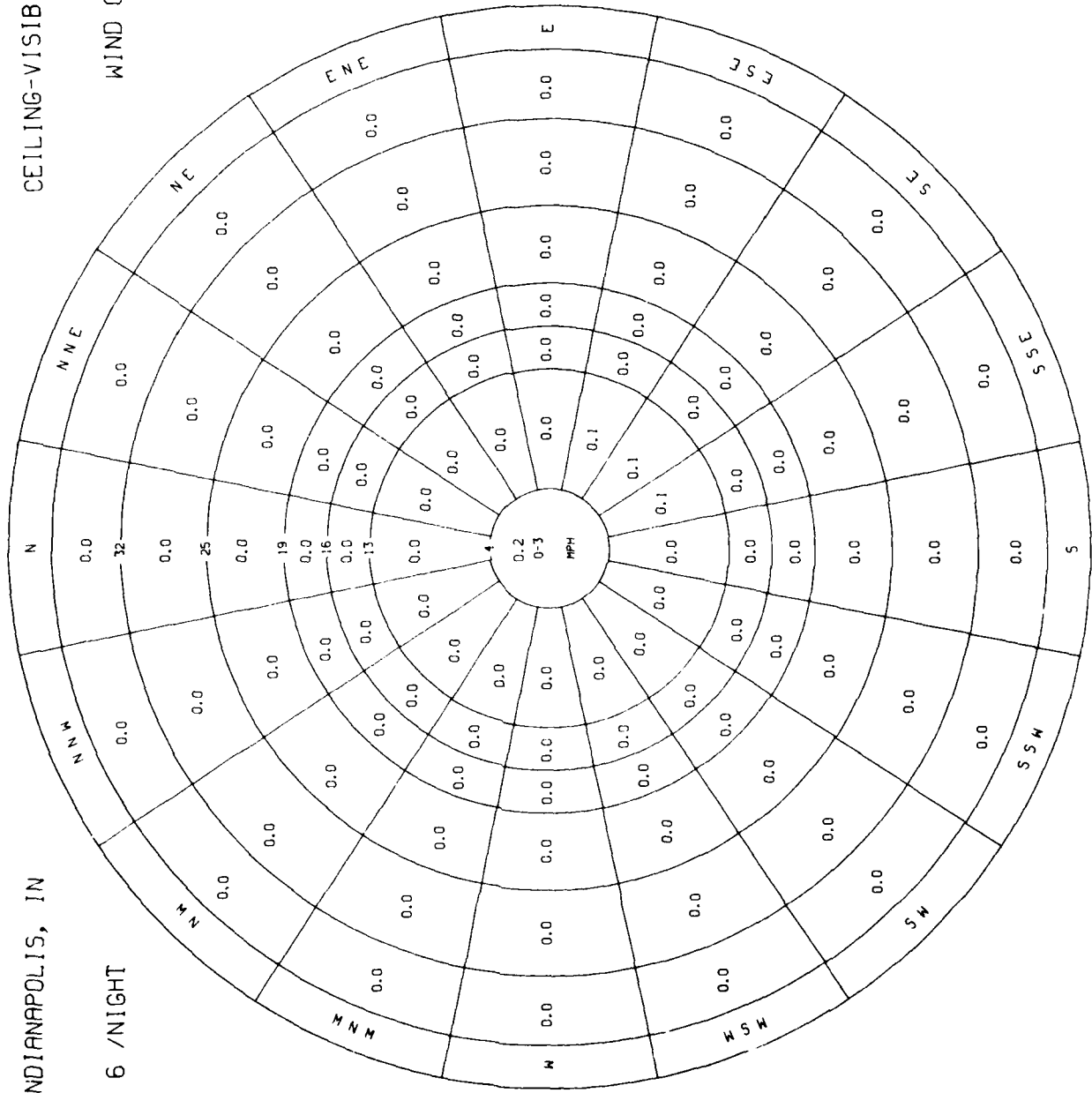
STATION NUMBER: 93919

NO. OBS.: 202

D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.0	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	1.0	13.0		
NNE	.0	.0	.0	2.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.5	10.6		
NE	.0	3.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	4.3		
ENE	.0	1.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	5.3		
E	.0	1.5	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	6.5		
ESE	.0	1.0	.0	6.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	7.3		
SE	.0	3.0	.0	11.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	15.8	7.7		
SSE	.0	1.5	.0	5.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	6.9		
S	.0	2.0	.0	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	6.2		
SSW	.0	2.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	5.2		
SW	.0	2.0	.0	6.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	6.8		
WSW	.0	2.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	5.9	9.0		
W	.0	1.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	4.0	7.6		
WNW	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	3.5	8.7		
NW	.0	2.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	4.0		
NNW	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	5.3		
CALM	.0	7.9													.0	7.9			
TOTAL	.1	32.2		.3	62.4		.0	2.5		.0	.5		.0	1.0		.4	6.4		

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 6 / NIGHT

NO. OBS.: 277

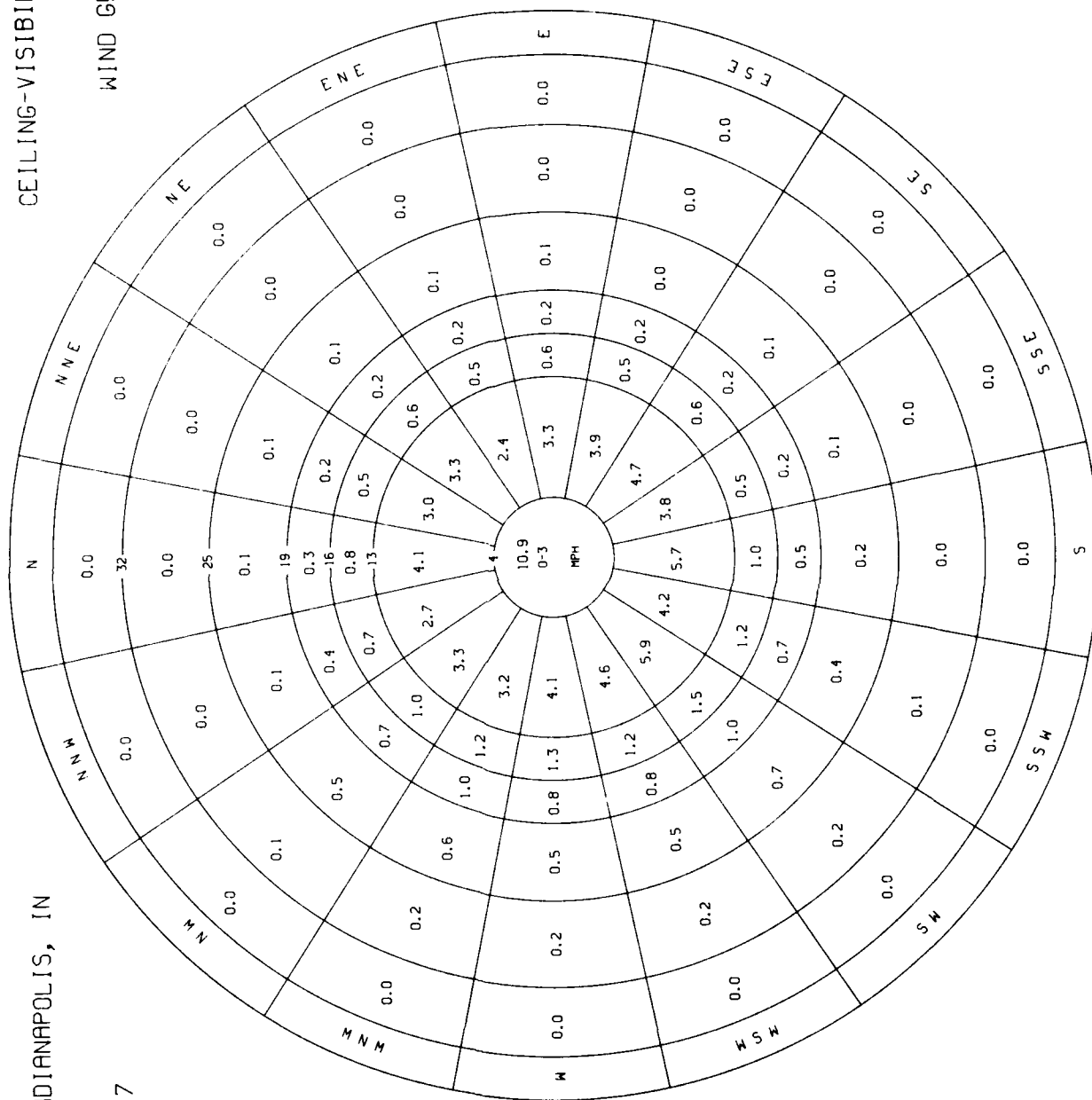
STATION NUMBER: 93819

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.9
NNE	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.2
NE	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	3.5
ENE	.0	1.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.4
E	.0	1.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	4.6
ESE	.0	2.2	.1	9.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	11.9	7.0
SE	.0	1.8	.1	12.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	15.2	7.5
SSE	.0	1.1	.1	8.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.7	7.2
S	.0	3.2	.0	6.9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	10.5	5.8
SSW	.0	1.8	.0	1.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	5.5
SW	.0	1.1	.0	5.4	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.1	7.6	8.3
WSW	.0	2.2	.0	5.1	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.1	7.9	6.8
W	.0	1.8	.0	2.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.7	.0	5.8	9.4
WNW	.0	1.1	.0	2.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.6	6.0
NW	.0	1.1	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.2
NNW	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.8
CALM	.0	6.1													.0	6.1	
TOTAL	.2	30.7	.4	63.9	.0	2.9	.0	.7	.0	.4	.0	.4	.0	1.1	.7	100	6.3

IND INDIANAPOLIS, IN

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 1 / DAY

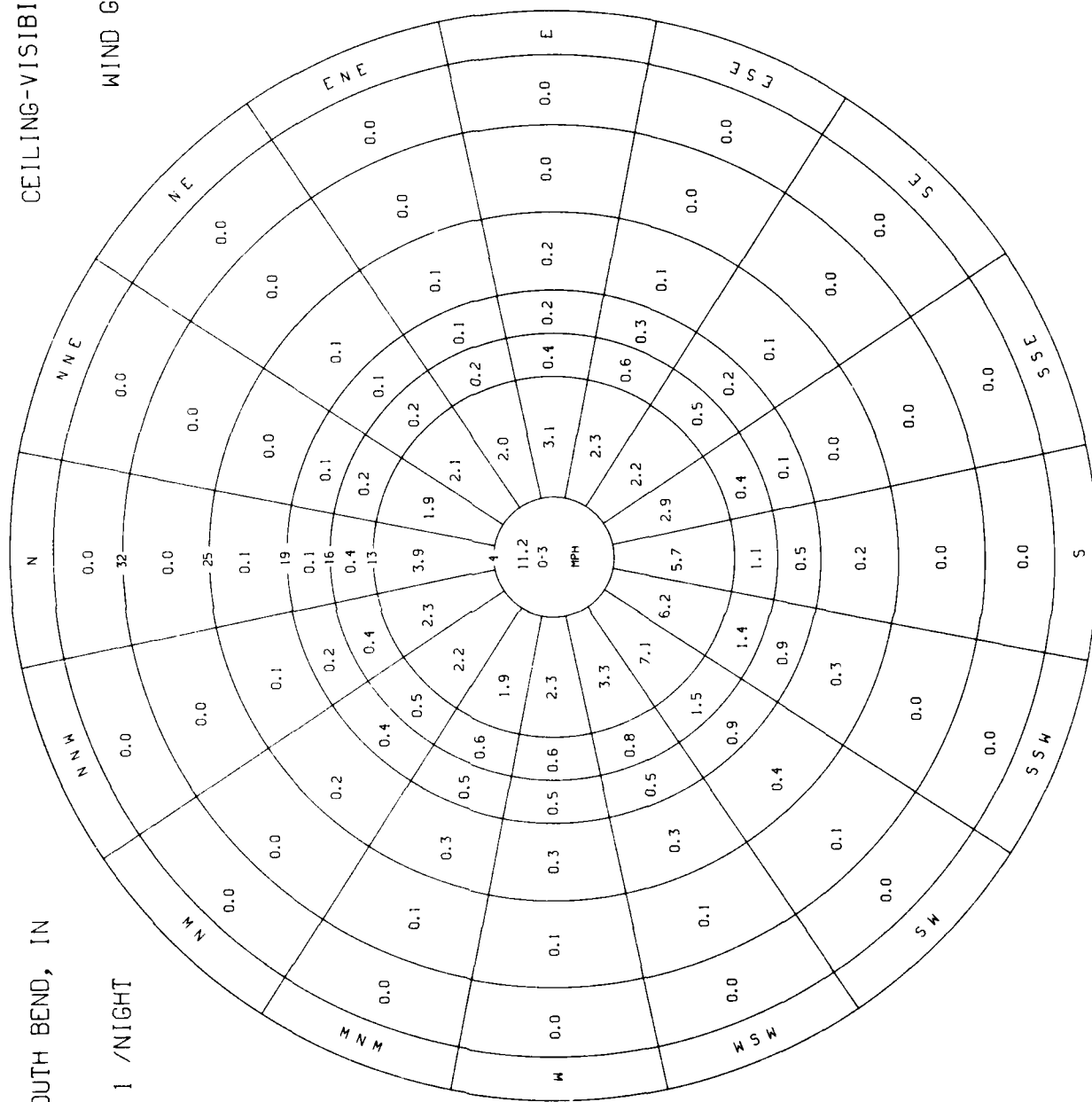
STATION NUMBER: 14848

NO. OBS.: 39760

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.2	3.5	4.3	1.0	1.2	.5	.6	.1	.2	.0	.0	.0	.0	5.4	6.5	10.6
NNE	.1	.1	1.5	1.8	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	2.1	2.5	9.9
NE	.1	.1	1.7	2.0	.4	.5	.2	.2	.0	.1	.0	.0	.0	.0	2.4	2.9	9.8
ENE	.1	.1	1.7	2.1	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.5	3.1	10.4
E	.2	.2	2.5	3.1	.6	.7	.4	.4	.2	.2	.0	.0	.0	.0	3.9	4.7	10.4
ESE	.1	.1	1.9	2.3	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	3.1	3.8	11.2
SE	.1	.1	1.9	2.3	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.0	3.6	10.8
SSE	.1	.2	2.6	3.2	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	3.8	4.6	10.1
S	.2	.3	4.8	5.9	1.8	2.1	1.1	1.3	.3	.4	.0	.0	.0	.0	8.3	10.0	11.3
SSW	.1	.2	4.1	4.9	1.9	2.3	1.4	1.7	.7	.8	.1	.1	.0	.0	8.3	10.1	12.6
SW	.2	.3	4.3	5.2	1.9	2.3	1.5	1.8	.8	1.0	.2	.2	.0	.0	8.9	10.8	12.7
WSW	.1	.1	2.9	3.5	1.2	1.5	1.0	1.2	.6	.7	.2	.2	.0	.0	6.0	7.3	13.0
W	.1	.2	2.0	2.4	.9	1.1	.8	.9	.5	.6	.1	.2	.0	.0	4.5	5.4	13.0
WNW	.1	.1	2.4	3.0	1.2	1.5	1.0	1.2	.7	.8	.1	.1	.0	.0	5.5	6.7	13.3
NW	.2	.2	3.0	3.7	1.6	1.9	1.1	1.4	.5	.7	.1	.1	.0	.0	6.5	7.9	12.6
NNW	.1	.1	3.1	3.8	1.4	1.7	1.0	1.2	.6	.7	.1	.1	.0	.0	6.2	7.5	12.6
CALM	2.2	2.6													2.2	2.6	
TOTAL	4.2	5.1	43.9	53.2	16.5	20.0	11.2	13.6	5.6	6.8	1.0	1.2	.1	.1	82.5	100	11.6

CEILING-VISIBILITY

WIND GRAPH



SBN SOUTH BEND, IN

CLASS 1 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 1 / NIGHT

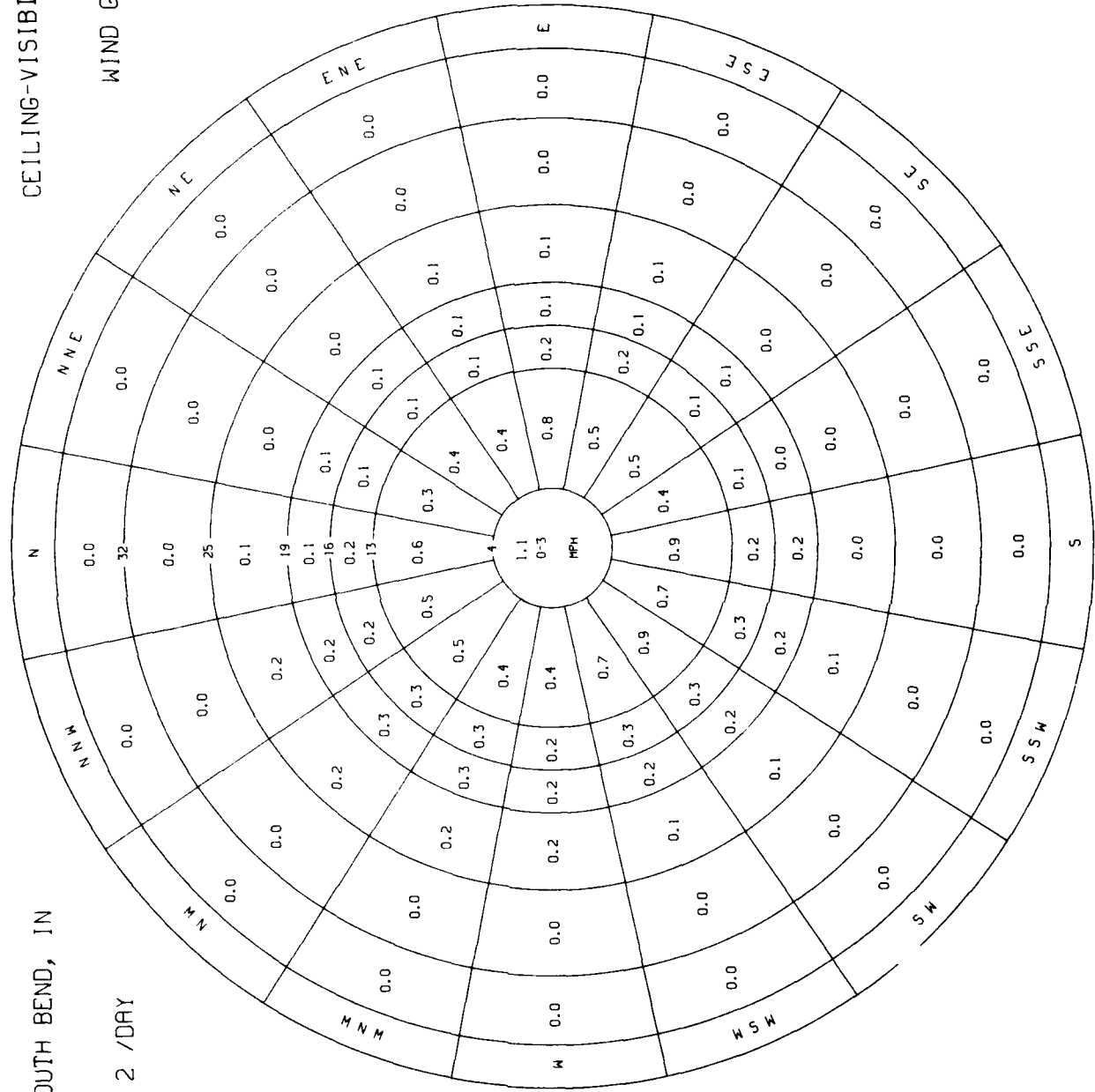
STATION NUMBER: 14848

NO. OBS.: 34436

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.5	.6	3.9	4.8	.4	.4	.1	.2	.1	.1	.0	.0	.0	.0	5.0	6.1
NNE	.2	.2	1.9	2.3	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.9
NE	.3	.4	2.1	2.6	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.8	3.5
ENE	.2	.3	2.0	2.4	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.6	3.2
E	.3	.4	3.1	3.9	.4	.5	.2	.3	.2	.2	.0	.0	.0	.0	4.2	5.2
ESE	.2	.2	2.3	2.8	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.5	4.3
SE	.2	.3	2.2	2.7	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	3.2	3.9
SSE	.2	.3	2.9	3.6	.4	.5	.1	.2	.0	.1	.0	.0	.0	.0	3.8	4.6
S	.5	.6	5.7	7.0	1.1	1.3	.5	.6	.2	.2	.0	.0	.0	.0	7.9	9.8
SSW	.3	.4	6.2	7.7	1.4	1.7	.9	1.1	.3	.4	.0	.0	.0	.0	9.1	11.2
SW	.4	.5	7.1	8.7	1.5	1.8	.9	1.1	.4	.4	.1	.1	.0	.0	10.3	12.7
WSW	.3	.3	3.3	4.1	.8	1.0	.5	.6	.3	.4	.1	.1	.0	.0	5.3	6.5
W	.3	.3	2.3	2.8	.6	.7	.5	.6	.3	.4	.1	.1	.0	.0	4.0	4.9
WNW	.2	.2	1.9	2.3	.6	.8	.5	.7	.3	.4	.1	.1	.0	.0	3.6	4.4
NW	.2	.3	2.2	2.7	.5	.7	.4	.5	.2	.3	.0	.1	.0	.0	3.6	4.4
NNW	.3	.4	2.3	2.8	.4	.5	.2	.3	.1	.2	.0	.0	.0	.0	3.4	4.1
CALM	6.6	8.1													6.6	8.1
TOTAL	11.2	13.7	51.5	63.3	9.6	11.8	5.8	7.1	2.7	3.3	.5	.6	.1	.1	81.3	100

CEILING-VISIBILITY

WIND GRAPH



SBN SOUTH BEND, IN

CLASS 2 / DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SBN SOUTH BEND, IN

CLASS 2 / DAY

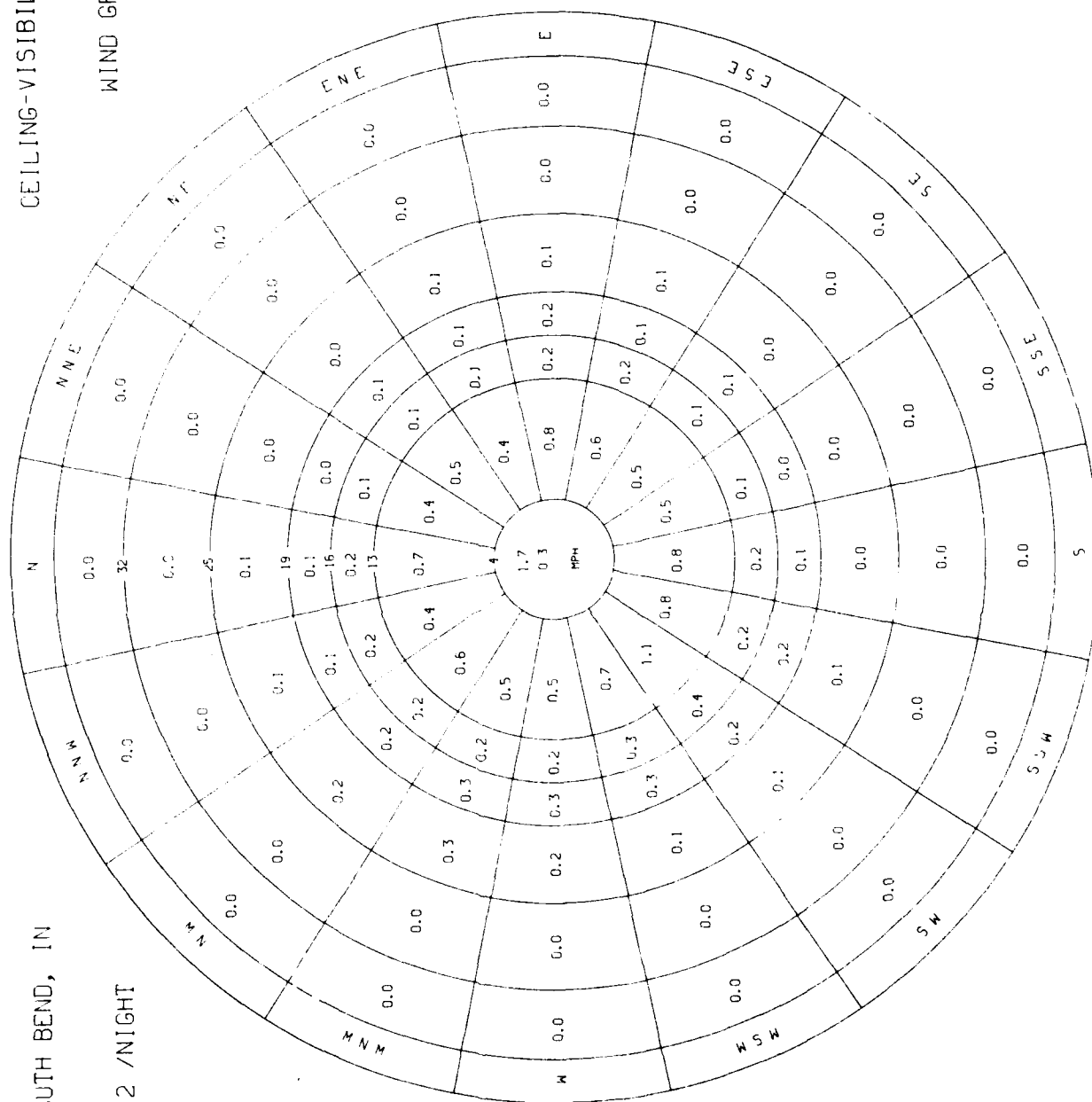
NO. OBS.: 8428

STATION NUMBER: 14848

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.6	3.3	.2	1.1	.1	.7	.1	.3	.0	.0	.0	.0	1.0 5.6 11.6
NNE	.0	.0	.3	1.7	.1	.6	.1	.4	.0	.2	.0	.0	.0	.0	.5 3.0 11.4
NE	.0	.2	.4	2.4	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.7 3.8 10.6
ENE	.0	.1	.4	2.2	.1	.7	.1	.5	.1	.3	.0	.0	.0	.0	.7 3.9 11.5
E	.0	.2	.8	4.3	.2	1.1	.1	.8	.1	.4	.0	.1	.0	.0	1.2 7.0 11.0
ESE	.0	.1	.5	2.8	.2	1.0	.1	.8	.1	.4	.0	.0	.0	.0	.9 5.2 12.0
SE	.0	.2	.5	2.7	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8 4.4 11.1
SSE	.0	.1	.4	2.6	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.6 3.7 10.2
S	.0	.2	.9	5.0	.2	1.4	.2	.9	.0	.3	.0	.0	.0	.0	1.4 7.8 10.7
SSW	.0	.2	.7	4.1	.3	1.5	.2	1.0	.1	.3	.0	.0	.0	.0	1.3 7.2 11.3
SW	.0	.3	.9	5.1	.3	1.9	.2	1.2	.1	.6	.0	.1	.0	.0	1.6 9.3 11.9
WSW	.0	.1	.7	3.9	.3	1.5	.2	1.2	.1	.8	.0	.2	.0	.0	1.4 7.9 12.5
W	.0	.1	.4	2.1	.2	1.2	.2	1.1	.2	1.1	.0	.1	.0	.0	1.0 5.8 13.9
WNW	.0	.1	.4	2.5	.3	1.8	.3	1.9	.2	1.4	.0	.2	.0	.1	1.4 7.9 14.8
NW	.0	.3	.5	3.0	.3	1.6	.3	1.8	.2	1.2	.0	.2	.0	.0	1.4 8.0 14.0
NNW	.0	.1	.5	2.7	.2	1.2	.2	1.0	.2	.9	.0	.2	.0	.0	1.1 6.2 13.7
CALM	.6	3.4													.6 3.4
TOTAL	1.1	6.1	8.8	50.4	3.3	18.8	2.5	14.4	1.5	8.7	.2	1.4	.0	.2	17.5 100 11.8

SBN SOUTH BEND, IN

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SBN SOUTH BEND, IN

CLASS 2 / NIGHT

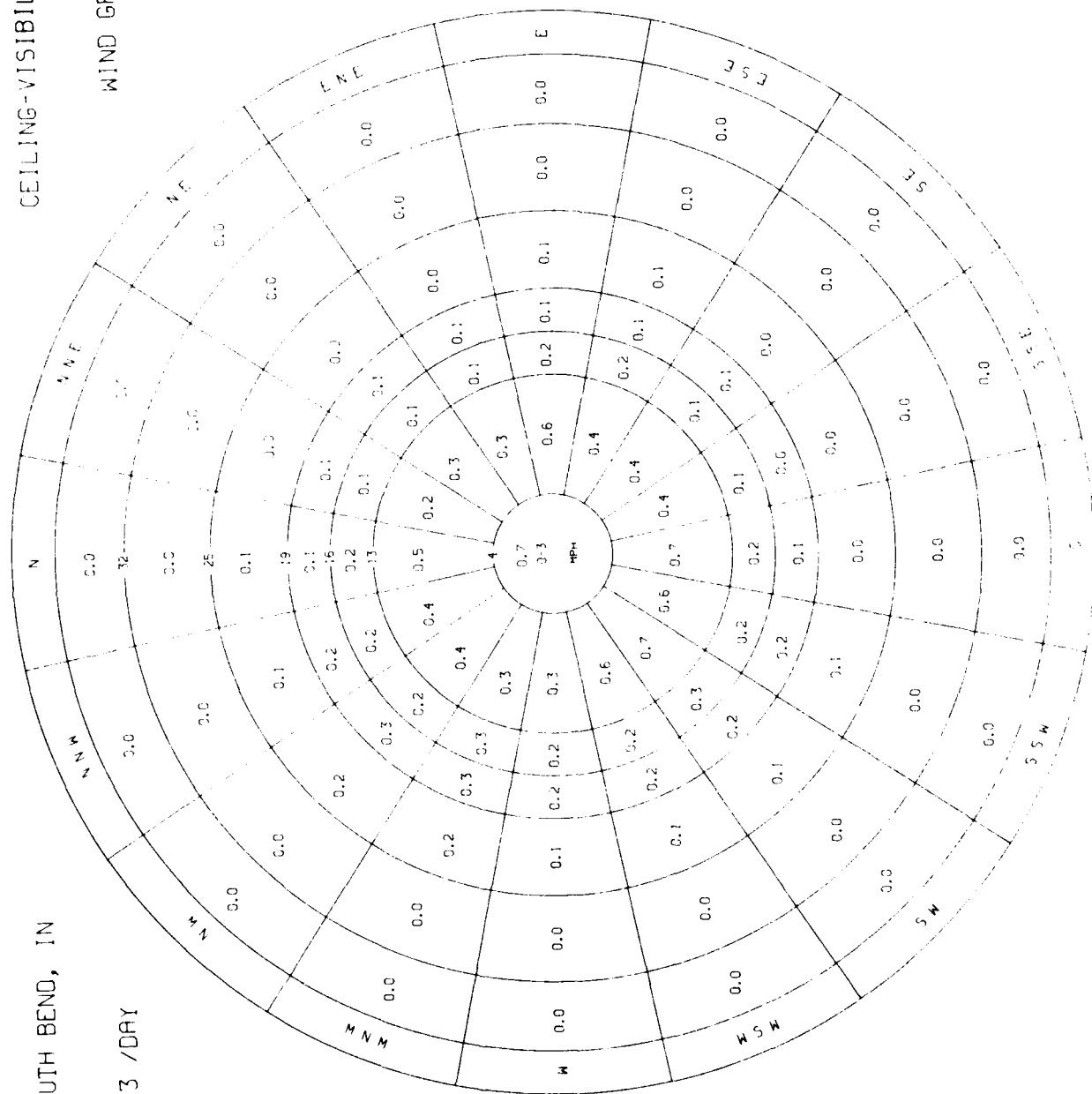
NO. OBS.: 7944

STATION NUMBER: 14843

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.3	.7	3.6	.2	1.0	.1	.7	.1	.3	.0	.1	.0	.0	1.1	6.0	10.9
NNE	.0	.1	.4	2.1	.1	.4	.0	.2	.0	.2	.0	.0	.0	.0	.6	3.0	10.2
NE	.0	.2	.5	2.7	.1	.7	.1	.4	.0	.3	.0	.0	.0	.0	.8	4.2	10.5
ENE	.0	.1	.4	2.1	.1	.7	.1	.5	.1	.3	.0	.1	.0	.0	.7	3.8	11.4
E	.1	.4	.8	4.1	.2	.8	.2	.8	.1	.4	.0	.1	.0	.0	1.2	6.6	10.8
ESE	.0	.2	.6	3.1	.2	.9	.1	.6	.1	.3	.0	.0	.0	.0	1.0	5.2	10.9
SE	.0	.2	.5	2.6	.1	.6	.1	.5	.0	.1	.0	.0	.0	.0	.7	4.0	10.6
SSE	.0	.2	.5	2.5	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.4	9.4
S	.1	.5	.8	4.4	.2	.9	.1	.6	.0	.1	.0	.1	.0	.0	1.2	6.6	9.9
SSW	.1	.3	.8	4.0	.2	1.3	.2	.3	.1	.4	.0	.0	.0	.0	1.3	7.0	11.2
SW	.1	.5	1.1	6.0	.4	2.3	.2	1.3	.1	.5	.0	.1	.0	.0	2.0	10.7	11.3
WSW	.1	.3	.7	4.0	.3	1.6	.3	1.5	.1	.7	.0	.2	.0	.0	1.6	8.4	12.4
W	.0	.2	.5	2.7	.2	1.2	.3	1.4	.2	1.0	.0	.1	.0	.0	1.3	6.7	13.4
WNW	.0	.1	.5	2.8	.2	1.3	.3	1.5	.3	1.4	.0	.3	.0	.0	1.4	7.3	14.2
NW	.0	.3	.6	3.2	.2	1.0	.2	1.3	.2	.8	.0	.2	.0	.0	1.3	6.7	12.8
NNW	.0	.2	.4	2.4	.2	.9	.1	.8	.1	.8	.0	.1	.0	.0	1.0	5.2	13.1
CALM	1.0	5.1													1.0	5.1	
TOTAL	1.7	9.1	9.8	52.5	3.0	16.1	2.5	13.2	1.4	7.6	.3	1.4	.0	.2	18.7	100	11.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 3 / DAY

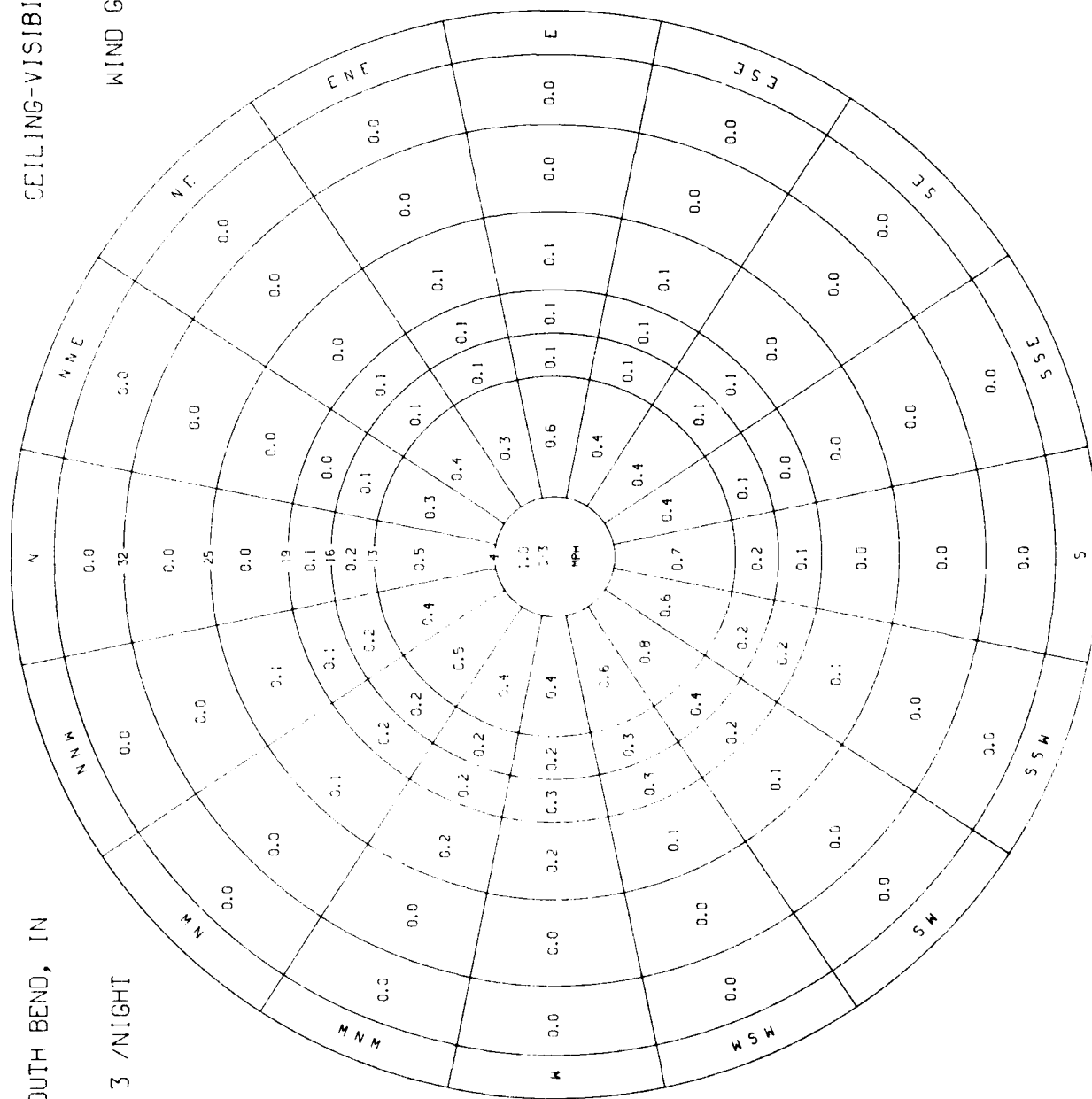
STATION NUMBER: 14848

NO. OBS.: 7037

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.5	3.2	.2	1.3	.1	.8	.1	.4	.0	.0	.0	.0	.8 5.7
NNE	.0	.1	.2	1.6	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.4 2.8
NNE	.0	.1	.3	2.4	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.6 3.8
ENE	.0	.1	.3	2.3	.1	.8	.1	.5	.0	.3	.0	.1	.0	.0	.6 4.1
E	.0	.2	.6	4.1	.2	1.2	.1	.8	.1	.5	.0	.1	.0	.0	1.0 6.8
ESE	.0	.1	.4	2.7	.2	1.1	.1	.8	.1	.5	.0	.1	.0	.0	.8 5.3
SE	.0	.2	.4	2.6	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.7 4.5
SSE	.0	.1	.4	2.6	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	.6 3.8
S	.0	.2	.7	5.1	.2	1.5	.1	1.0	.0	.3	.0	.0	.0	.0	1.2 8.1
SSW	.0	.2	.6	3.8	.2	1.5	.2	1.1	.1	.4	.0	.0	.0	.0	1.0 7.0
SW	.0	.2	.7	5.0	.3	2.0	.2	1.4	.1	.7	.0	.2	.0	.0	1.4 9.5
WSW	.0	.1	.6	3.9	.2	1.6	.2	1.3	.1	.9	.0	.2	.0	.0	1.2 8.1
W	.0	.1	.3	2.0	.2	1.2	.2	1.1	.1	1.0	.0	.1	.0	.0	.8 5.5
WNW	.0	.1	.3	2.4	.3	2.0	.3	1.9	.2	1.3	.0	.1	.0	.0	1.1 7.8
NW	.0	.3	.4	3.0	.2	1.5	.3	1.9	.2	1.2	.0	.2	.0	.0	1.2 8.2
NNW	.0	.1	.4	2.6	.2	1.3	.2	1.2	.1	.9	.0	.2	.0	.0	.9 6.4
CALM	.4	2.6													.4 2.6
TOTAL	.7	5.0	7.2	49.4	2.9	19.9	2.2	15.4	1.3	8.8	.2	1.4	.0	.1	14.6 100 12.1

CEILING-VISIBILITY

WIND GRAPH



SBN SOUTH BEND, IN

CLASS 3 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 3 / NIGHT

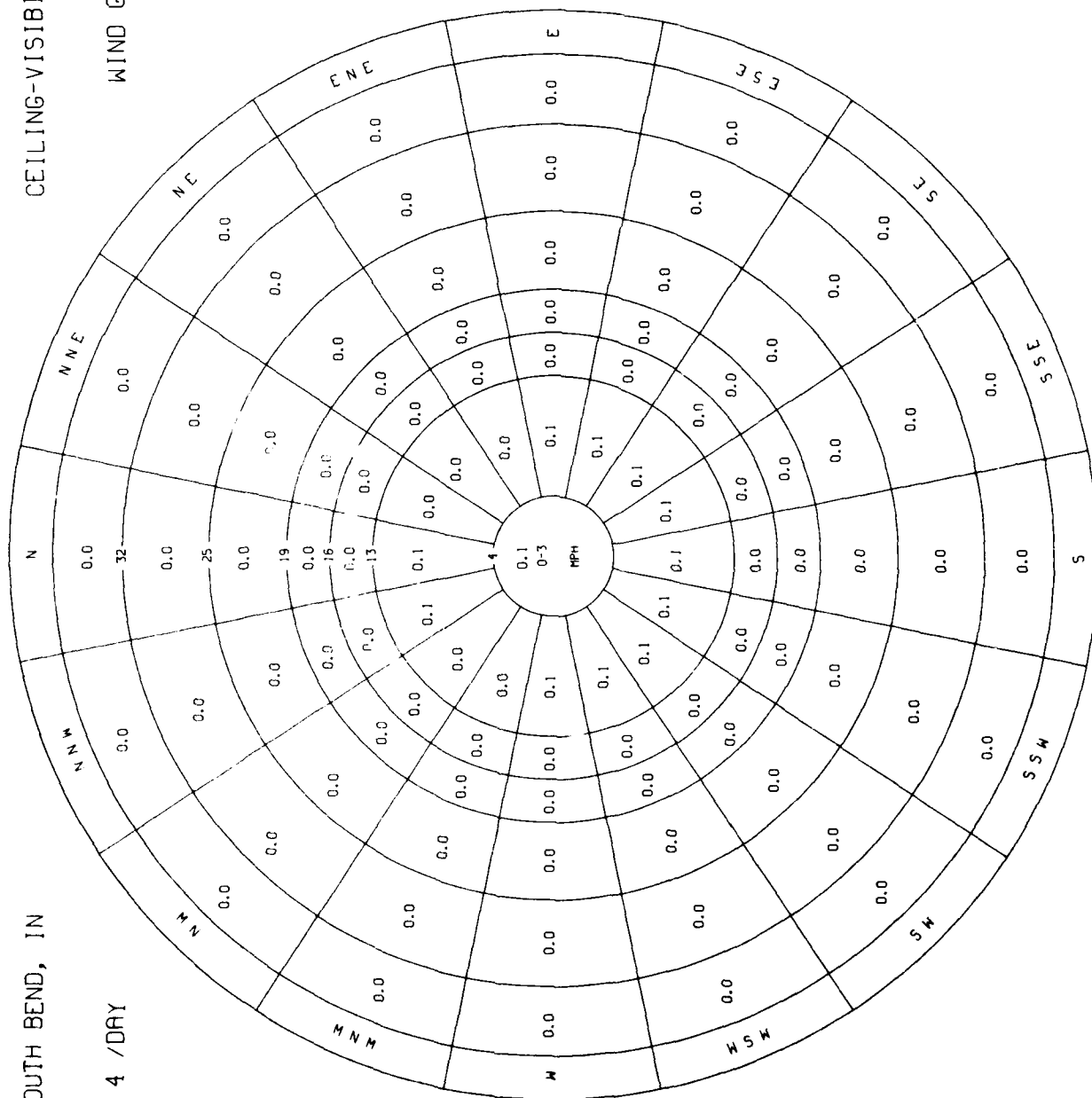
NO. OBS.: 6352

STATION NUMBER: 14848

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.5	3.5	.2	1.1	.1	.8	.0	.3	.0	.0	.0	.0	.9 6.0
NNE	.0	.1	.3	2.0	.1	.5	.0	.2	.0	.2	.0	.0	.0	.0	.5 3.0
NE	.0	.2	.4	2.8	.1	.6	.1	.4	.0	.3	.0	.0	.0	.0	.6 4.3
ENE	.0	.1	.3	2.2	.1	.7	.1	.5	.1	.4	.0	.1	.0	.0	.6 3.9
E	.0	.3	.6	3.8	.1	.9	.1	.9	.1	.5	.0	.1	.0	.0	1.0 6.5
ESE	.0	.2	.4	2.9	.1	.9	.1	.7	.1	.3	.0	.0	.0	.0	.8 5.1
SE	.0	.1	.4	2.5	.1	.7	.1	.6	.0	.1	.0	.0	.0	.0	.6 4.0
SSE	.0	.1	.4	2.5	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.5 3.4
S	.0	.3	.7	4.4	.2	1.0	.1	.8	.0	.1	.0	.1	.0	.0	1.0 6.7
SSW	.0	.2	.6	4.0	.2	1.4	.2	1.1	.1	.5	.0	.0	.0	.0	1.1 7.3
SW	.1	.4	.8	5.6	.4	2.5	.2	1.4	.1	.5	.0	.2	.0	.0	1.6 10.8
WSW	.0	.1	.6	4.0	.3	1.8	.3	1.7	.1	.8	.0	.3	.0	.0	1.3 8.8
W	.0	.1	.4	2.7	.2	1.3	.3	1.7	.2	1.0	.0	.1	.0	.0	1.0 6.9
WNW	.0	.1	.4	2.6	.2	1.4	.2	1.6	.2	1.3	.0	.2	.0	.0	1.1 7.3
NW	.0	.2	.5	3.1	.2	1.1	.2	1.4	.1	.9	.0	.2	.0	.0	1.0 6.9
NNW	.0	.1	.4	2.4	.2	1.0	.1	.9	.1	.8	.0	.1	.0	.0	.8 5.5
CALM	.6	3.9													.6 3.9
TOTAL	1.0	6.8	7.6	51.0	2.7	17.7	2.2	14.7	1.2	8.1	.2	1.5	.0	.1	15.0 100 11.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 4 / DAY

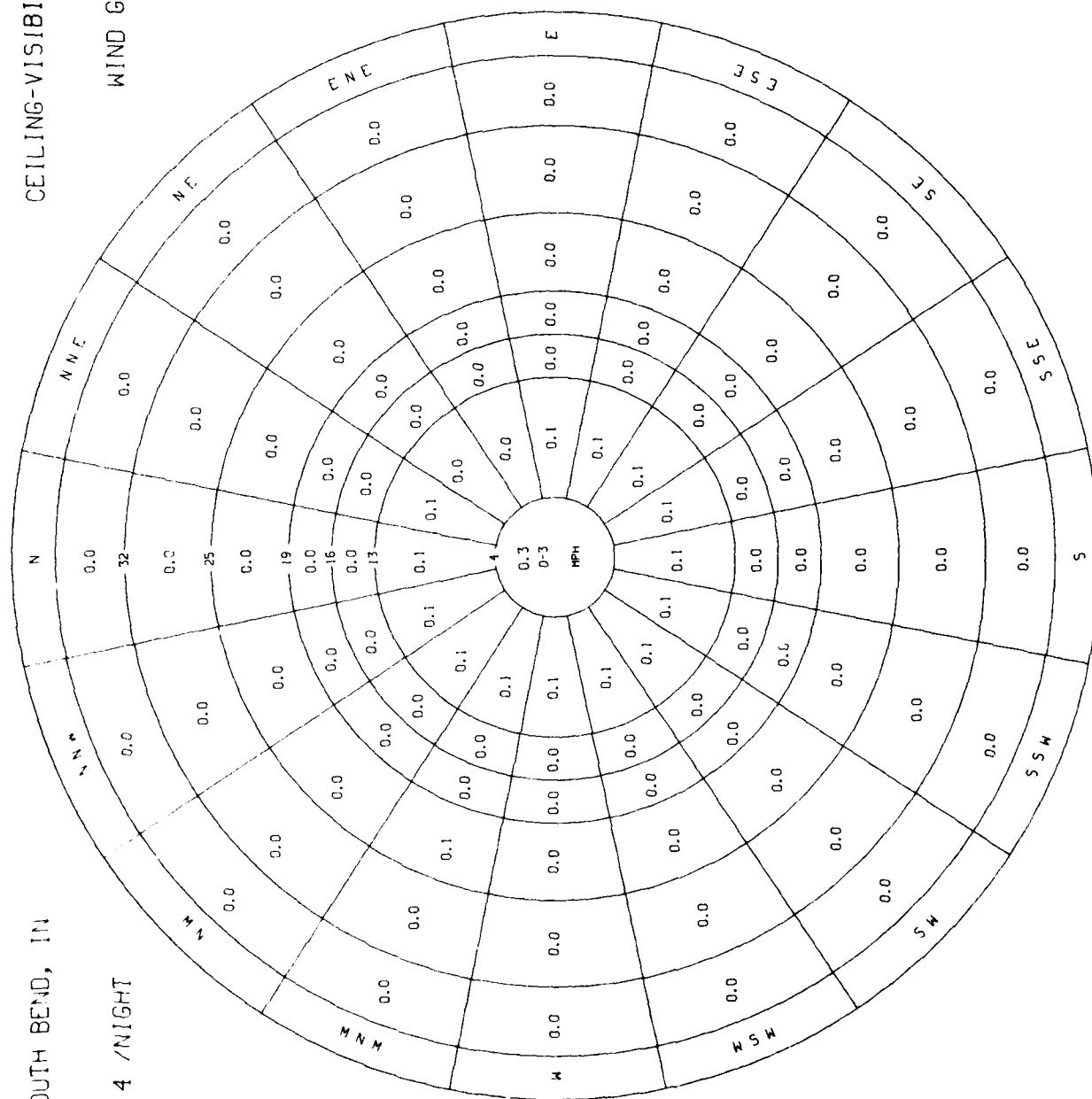
STATION NUMBER: 14848

NO. OBS.: 934

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.2	.1	3.6	.0	.4	.0	.3	.0	.3	.0	.0	.0	.0	.0	.1	4.9	9.7
NNE	.0	.0	.0	2.0	.0	1.2	.0	.4	.0	.3	.0	.0	.0	.0	.0	.1	4.0	12.4
NE	.0	.1	.0	2.6	.0	.6	.0	.2	.0	.1	.0	.0	.0	.0	.0	.1	3.6	9.6
ENE	.0	.0	.0	2.2	.0	1.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.1	3.6	10.9
E	.0	.5	.1	5.4	.0	1.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	.1	7.7	9.6
ESE	.0	.0	.1	3.1	.0	1.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.1	4.7	10.8
SE	.0	.2	.1	2.9	.0	.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	4.6	10.2
SSE	.0	.2	.1	2.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.3	9.2
S	.0	.3	.1	5.0	.0	.6	.0	.3	.0	.4	.0	.0	.0	.0	.0	.1	6.7	9.2
SSW	.0	.1	.1	5.9	.0	1.5	.0	.3	.0	.2	.0	.0	.0	.0	.0	.2	8.0	9.5
SW	.0	.4	.1	4.4	.0	1.2	.0	.6	.0	.5	.0	.0	.0	.0	.0	.1	7.2	11.0
WSW	.0	.2	.1	3.2	.0	1.1	.0	1.4	.0	.9	.0	.2	.0	.0	.0	.1	7.0	12.7
W	.0	.1	.1	3.0	.0	1.1	.0	1.7	.0	1.8	.0	.1	.0	.0	.0	.2	7.8	14.0
WNW	.0	.2	.0	2.6	.0	1.7	.0	2.2	.0	2.4	.0	.5	.0	.0	.0	.2	9.6	15.7
NW	.0	.2	.0	2.6	.0	1.8	.0	1.6	.0	1.2	.0	.2	.0	.0	.0	.1	7.6	14.6
NNW	.0	.2	.1	3.4	.0	.6	.0	.3	.0	1.3	.0	.3	.0	.0	.0	.1	6.2	13.0
CALM	.1	3.3														.1	3.3	
TOTAL	.1	6.4	1.1	54.6	.3	16.3	.2	11.2	.2	10.1	.0	1.4	.0	.0	.0	.19	100	11.3

CEILING-VISIBILITY

WIND GRAPH



SBN SOUTH BEND, IN

CLASS 4 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 4 / NIGHT

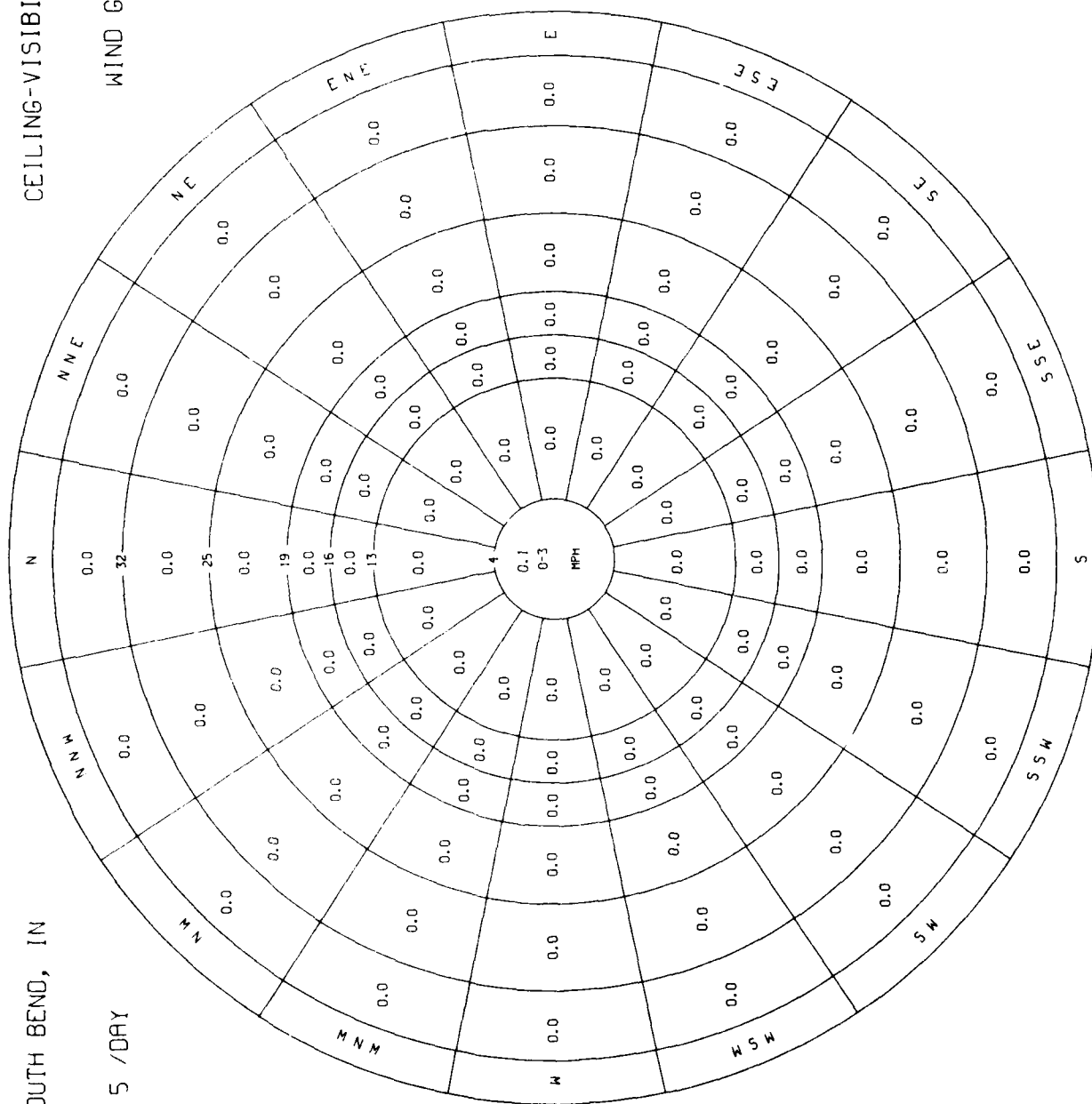
STATION NUMBER: 14848

NO. OBS.: 954

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D					
N	.0	.3	.1	4.0	.0	.8	.0	.3	.0	.3	.0	.1	.0	.0	.0	.1	5.9	10.2				
NNE	.0	.1	.1	2.9	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.0	.1	3.7	9.4				
NE	.0	.1	.0	1.8	.0	1.2	.0	.3	.0	.2	.0	.0	.0	.0	.0	.1	3.6	11.5				
ENE	.0	.2	.0	1.7	.0	.8	.0	.7	.0	.3	.0	.0	.0	.0	.0	.1	3.8	11.8				
E	.0	.4	.1	4.5	.0	.4	.0	.9	.0	.2	.0	.0	.0	.0	.0	.1	6.5	9.7				
ESE	.0	.2	.1	4.7	.0	1.4	.0	.4	.0	.2	.0	.0	.0	.0	.0	.2	6.9	10.3				
SE	.0	.3	.1	4.2	.0	.5	.0	.5	.0	.2	.0	.0	.0	.0	.0	.1	5.8	9.7				
SSE	.0	.6	.1	2.6	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	3.7	8.0				
S	.0	.5	.1	3.7	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	4.9	8.2				
SSW	.0	.1	.1	3.6	.0	.7	.0	.7	.0	.3	.0	.0	.0	.0	.0	.1	5.5	11.1				
SW	.0	.2	.1	6.5	.0	1.9	.0	.8	.0	.3	.0	.0	.0	.0	.0	.2	9.7	10.9				
WSW	.0	.4	.1	3.7	.0	1.4	.0	.8	.0	.6	.0	.0	.0	.0	.0	.2	6.9	11.0				
W	.0	.2	.1	3.1	.0	.6	.0	.8	.0	.9	.0	.2	.0	.2	.0	.1	6.2	13.0				
WNW	.0	.1	.1	3.4	.0	1.0	.0	1.4	.1	2.3	.0	.4	.0	.1	.2	8.7	14.9					
NW	.0	.2	.1	3.6	.0	.6	.0	1.0	.0	.4	.0	.2	.0	.0	.0	.1	6.1	11.5				
NNW	.0	.3	.1	2.5	.0	.5	.0	.2	.0	.8	.0	.1	.0	.2	.0	.1	4.7	12.7				
CALM	.2	7.5														.2	7.5					
TOTAL	.3	11.9	1.3	56.4	.3	13.2	.2	9.5	.2	7.3	.0	1.0	.0	.5	2.3	10.0		10.2				

CEILING-VISIBILITY

WIND GRAPH



SBN SOUTH BEND, IN

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 5 / DAY

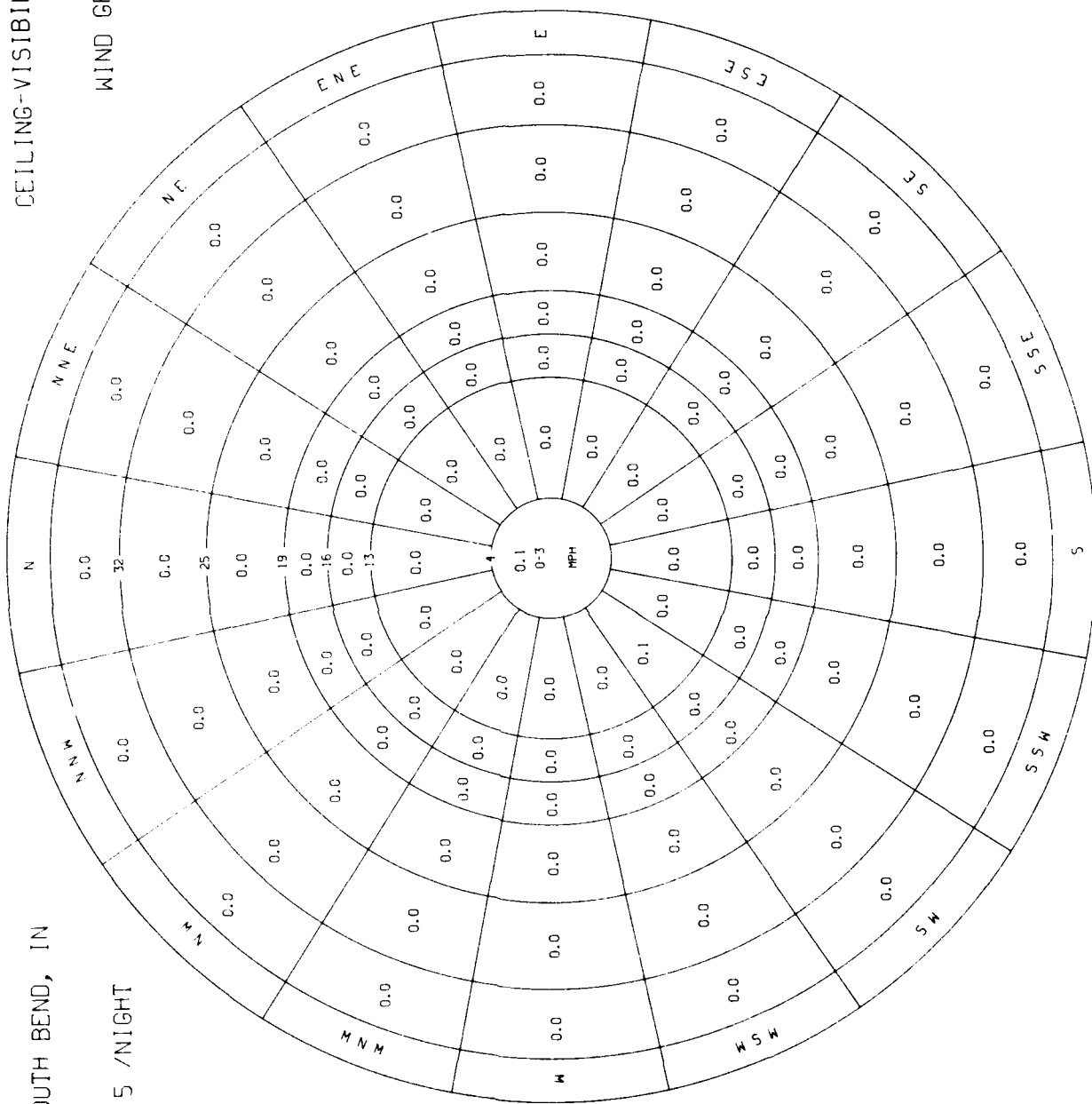
STATION NUMBER: 14848

NO. OBS.: 220

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.0	5.0	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	6.8
NNE	.0	.0	.0	3.6	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	5.5
NE	.0	.9	.0	2.7	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	5.0
ENE	.0	.5	.0	1.4	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	2.3
E	.0	.5	.0	6.8	.0	.5	.0	.9	.0	.5	.0	.0	.0	.0	9.1
ESE	.0	.5	.0	3.6	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	5.0
SE	.0	.0	.0	3.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	3.6
SSE	.0	.5	.0	1.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	2.7
S	.0	.5	.0	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	4.1
SSW	.0	1.4	.0	2.3	.0	.9	.0	.5	.0	.5	.0	.0	.0	.0	5.5
SW	.0	.5	.0	6.4	.0	1.8	.0	.5	.0	.5	.0	.0	.0	.0	9.5
WSW	.0	.5	.0	2.7	.0	.5	.0	.9	.0	.5	.0	.0	.0	.0	5.0
W	.0	.5	.0	1.4	.0	.5	.0	.5	.0	.5	.0	.5	.0	.5	5.9
WNW	.0	.5	.0	4.5	.0	.0	.0	2.3	.0	1.4	.0	.9	.0	.0	9.5
NW	.0	.0	.0	3.2	.0	1.4	.0	.9	.0	.5	.0	.0	.0	.0	5.9
NNW	.0	.5	.0	2.3	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	4.5
CALM	.0	10.0													10.0
TOTAL	1	17.3	2	53.6	0	10.5	0	8.6	0	8.2	0	1.4	0	.5	100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 5 / NIGHT

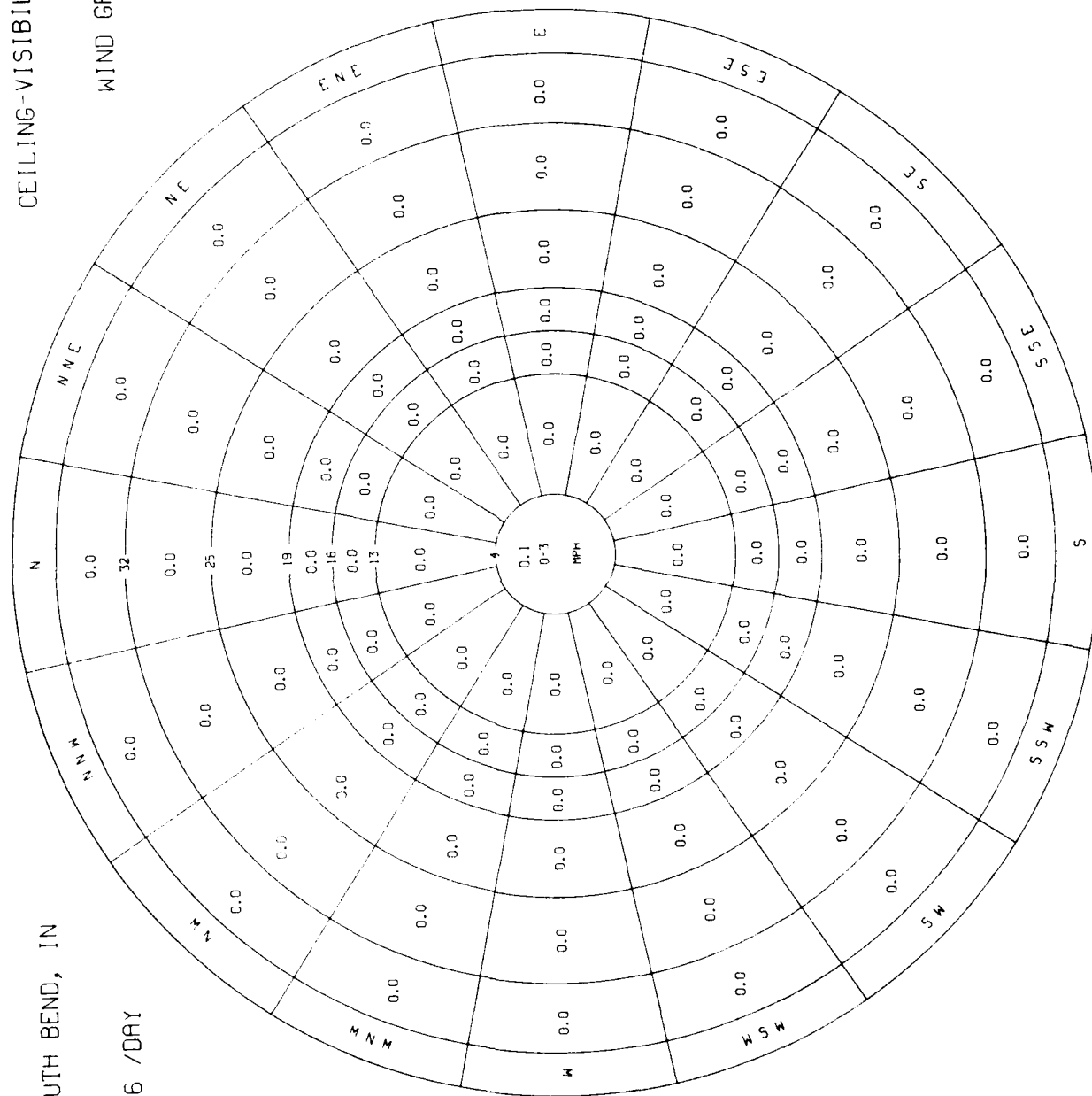
NO. OBS.: 283

STATION NUMBER: 14848

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.4	.0	5.7	.0	.4	.0	.7	.0	.7	.0	.4	.0	.0	.1	8.1	10.5
NNE	.0	.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	5.0
NE	.0	.4	.0	2.5	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.5	8.4
ENE	.0	.0	.0	2.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	9.5
E	.0	.0	.0	7.4	.0	.4	.0	.7	.0	.0	.0	.0	.0	.0	.1	8.5	8.5
ESE	.0	.0	.0	4.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	9.1
SE	.0	.4	.0	1.1	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.1	10.0
SSE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	7.6
S	.0	.4	.0	7.1	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.1	8.5	9.1
SSW	.0	1.1	.0	5.3	.0	1.1	.0	.4	.0	.4	.0	.0	.0	.0	.1	8.1	8.4
SW	.0	.7	.1	7.8	.0	.7	.0	.4	.0	.4	.0	.0	.0	.0	.1	9.9	8.3
WSW	.0	1.1	.0	4.2	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	6.0	7.5
W	.0	1.4	.0	1.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.9	6.7
WNW	.0	.7	.0	2.5	.0	.0	.0	1.4	.0	.7	.0	.4	.0	.0	.0	5.7	12.9
NW	.0	1.4	.0	3.2	.0	.4	.0	1.4	.0	.4	.0	.0	.0	.0	.0	6.7	9.4
NNW	.0	.4	.0	2.5	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.5	8.6
CALM	.1	12.7													.1	12.7	
TOTAL	.1	21.2	.4	61.8	.0	6.0	.0	6.7	.0	3.5	.0	.7	.0	.0	.7	10.0	7.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 6 / DAY

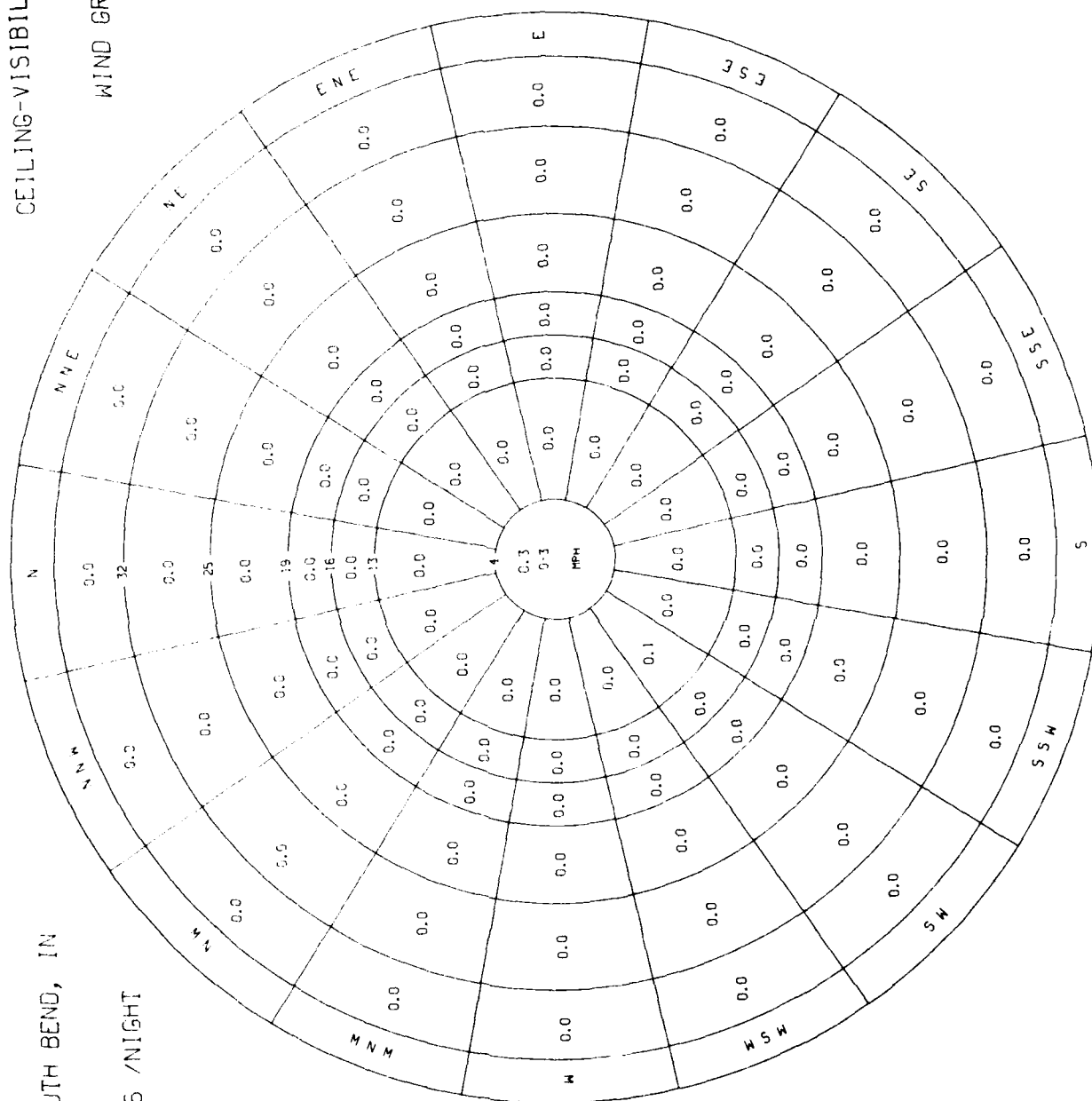
STATION NUMBER: 14848

NO. OBS.: 237

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	3.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 5.1
NNE	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
NE	.0	.0	.0	2.5	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 3.4
ENE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
E	.0	.8	.0	4.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 5.9
ESE	.0	1.3	.0	4.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.9
SE	.0	.0	.0	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
SSE	.0	.0	.0	.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 1.7
S	.0	.4	.0	5.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.8
SSW	.0	.0	.0	8.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 8.9
SW	.0	.4	.0	9.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 10.1
WSW	.0	.0	.0	7.6	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 8.4
W	.0	.8	.0	3.4	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0 5.1
WNW	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
NW	.0	.8	.0	3.0	.0	.8	.0	.0	.0	.0	.0	.8	.0	.4	.0 5.9
NNW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0 2.1
CALM	.1	19.8													.1 19.8
TOTAL	.1	26.2	.3	62.9	.0	4.6	.0	2.5	.0	.8	.0	1.3	.0	1.7	.5 100
															6.7

CEILING-VISIBILITY

WIND GRAPH



SBN SOUTH BEND, IN

CLASS 6 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 6 / NIGHT

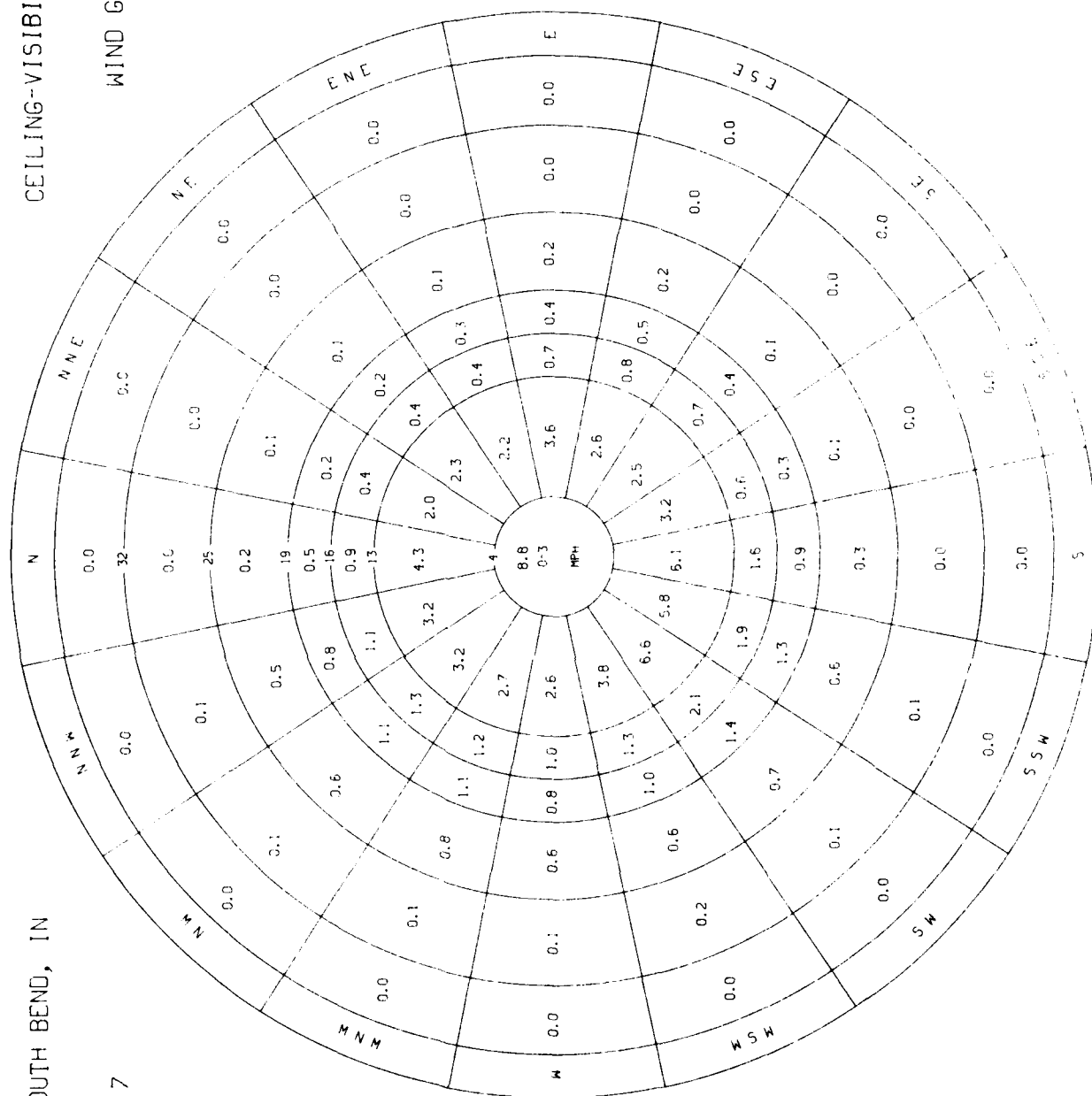
STATION NUMBER: 14848

NO. OBS.: 355

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.0	.0	3.1	.0	.3	.0	.0	.0	.6	.0	.0	.0	.0	5.9
NNE	.0	.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
NE	.0	1.1	.0	3.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	5.4
ENE	.0	.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
E	.0	1.1	.0	5.1	.0	.3	.0	.3	.0	.0	.0	.0	.0	.1	6.8
ESE	.0	.6	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1
SE	.0	.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
SSE	.0	.3	.0	2.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.4
S	.0	2.5	.0	5.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	2.8
SSW	.0	1.4	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.7
SW	.0	2.3	.1	10.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	6.5
WSW	.0	2.3	.0	4.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	13.2
W	.0	1.1	.0	3.7	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	7.3
WNW	.0	.3	.0	4.2	.0	.3	.0	.0	.0	.0	.0	.8	.0	.0	5.9
NW	.0	1.1	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	5.6
NNW	.0	.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9
CALM	.1	14.9													2.0
TOTAL	.3	32.7	.5	61.1	.0	3.1	.0	.6	.0	1.4	.0	1.1	.0	.0	14.9
														.8	100
															5.9

CEILING-VISIBILITY

WIND GRAPH



SBN SOUTH BEND, IN

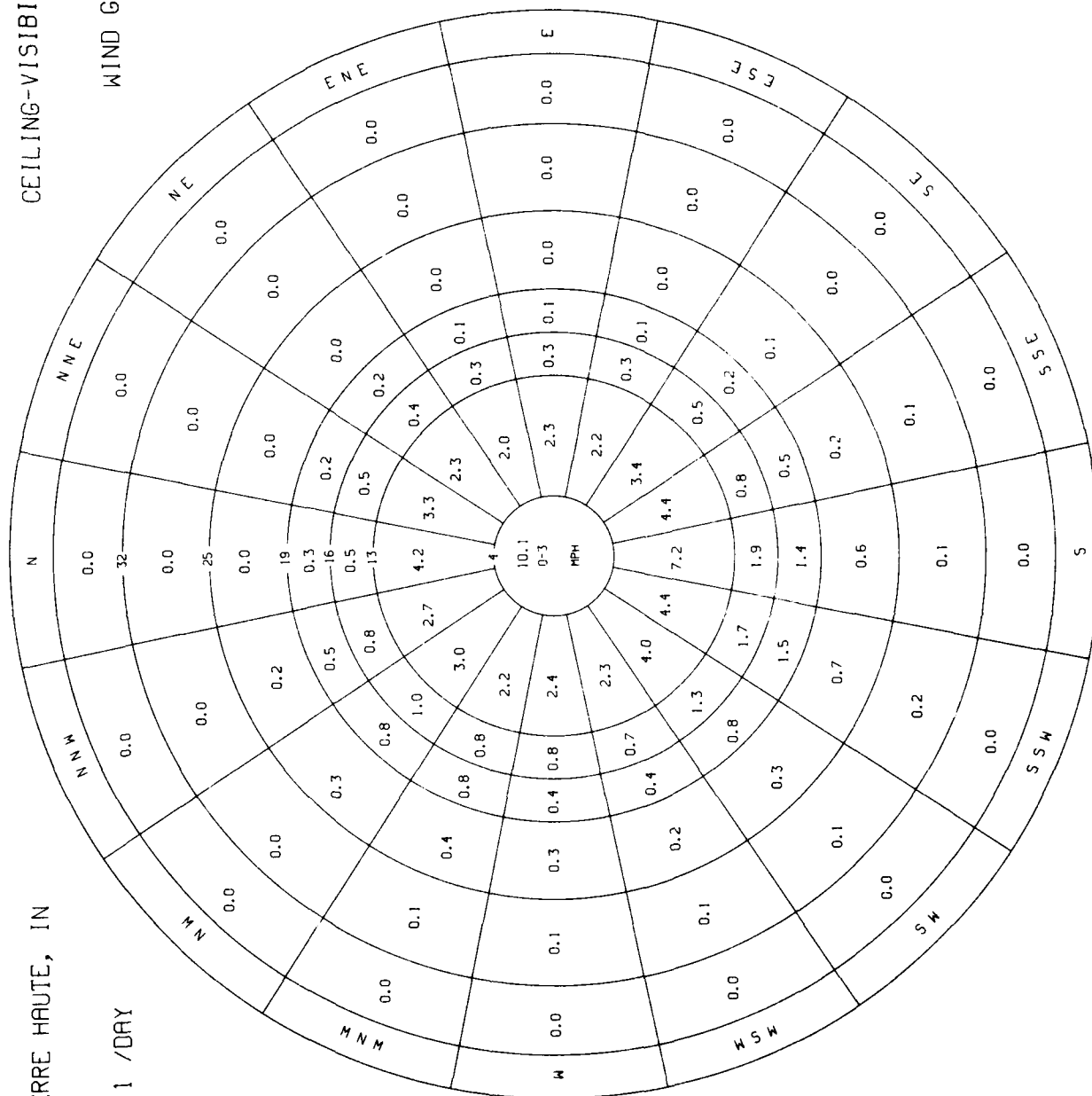
CLASS 7

CEILING-VISIBILITY

WIND GRAPH

HUF TERRE HAUTE, IN

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1977

STATION NAME: HUF TERRE HAUTE, IN

CLASS 1 / DAY

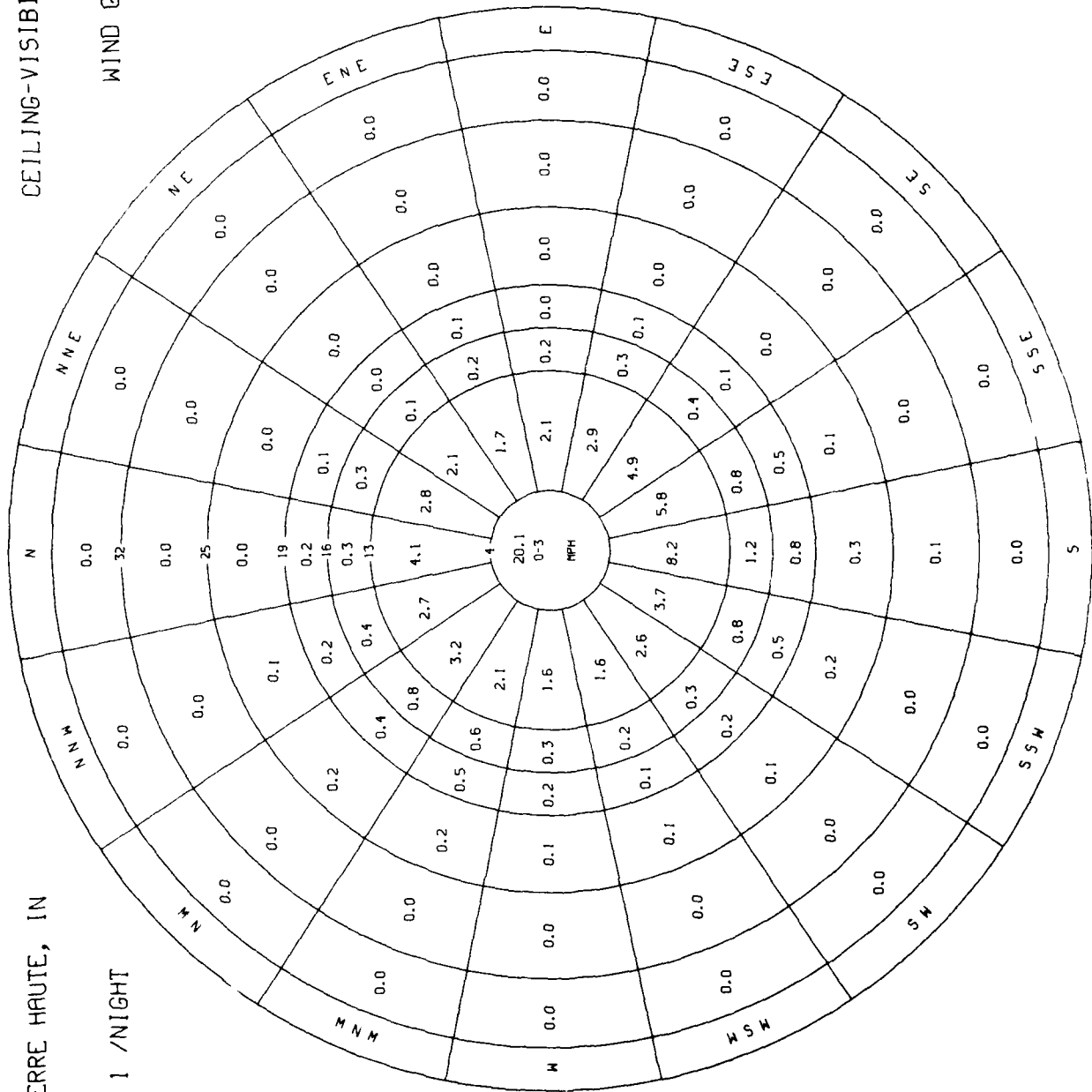
NO. OBS.: 14932

STATION NUMBER: 93823

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.6	.7	4.2	4.8	.5	.6	.3	.3	.0	.0	.0	.0	.0	.0	5.7	6.5	8.8
NNE	.6	.7	3.3	3.7	.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	4.6	5.2	8.6
NE	.6	.7	2.3	2.7	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.6	4.1	8.3
ENE	.4	.5	2.0	2.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.8	3.2	8.0
E	.6	.6	2.3	2.6	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.3	3.7	7.9
ESE	.3	.4	2.2	2.5	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	3.0	3.4	8.6
SE	.8	.9	3.4	3.9	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	5.0	5.7	8.3
SSE	.6	.7	4.4	5.0	.8	.9	.5	.5	.2	.2	.1	.1	.0	.0	6.5	7.4	9.6
S	.8	.9	7.2	8.2	1.9	2.1	1.4	1.6	.6	.7	.1	.2	.0	.0	12.0	13.7	10.8
SSW	.4	.4	4.4	5.1	1.7	1.9	1.5	1.7	.7	.8	.2	.2	.0	.0	8.9	10.1	12.4
SW	.5	.6	4.0	4.6	1.3	1.4	.8	1.0	.3	.4	.1	.1	.0	.0	7.0	8.1	11.1
WSW	.3	.4	2.3	2.6	.7	.8	.4	.5	.2	.2	.1	.1	.0	.0	4.0	4.6	11.1
W	.3	.3	2.4	2.8	.8	.9	.4	.4	.3	.3	.1	.1	.0	.0	4.2	4.8	11.2
WNW	.2	.2	2.2	2.5	.8	1.0	.8	1.0	.4	.5	.1	.2	.0	.0	4.6	5.3	12.9
NW	.3	.4	3.0	3.5	1.0	1.1	.8	.9	.3	.4	.0	.0	.0	.0	5.5	6.3	11.4
NNW	.4	.4	2.7	3.1	.8	.9	.5	.5	.2	.2	.0	.0	.0	.0	4.5	5.1	10.5
CALM	2.4	2.7													2.4	2.7	
TOTAL	10.1	11.6	52.2	59.7	12.5	14.3	8.2	9.4	3.4	3.9	.8	1.0	.1	.1	87.5	100	10.0

HUF TERRE HAUTE, IN

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 1 / NIGHT

STATION NUMBER: 93823

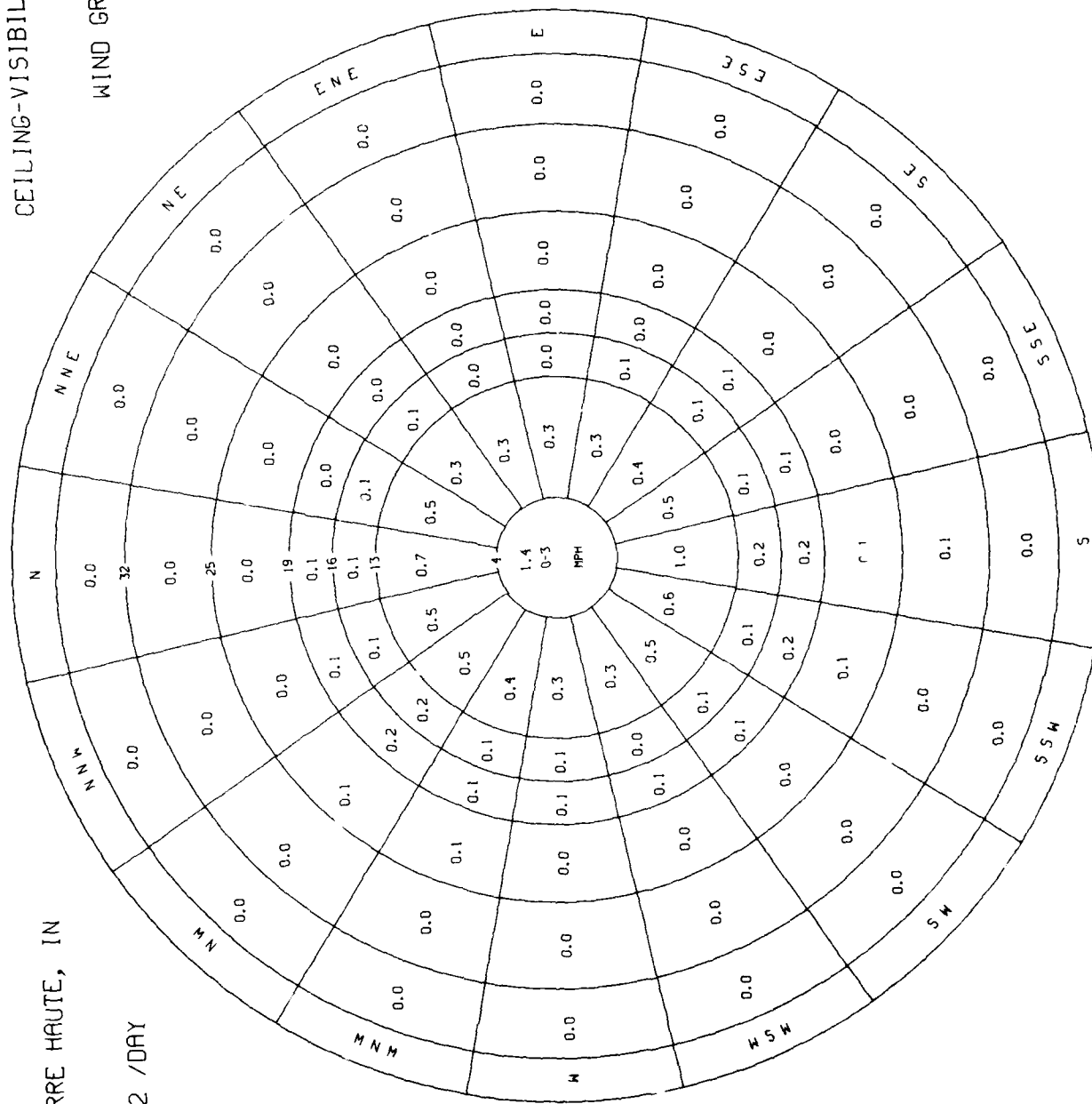
NO. OBS.: 12797

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	1.3	1.5	4.1	4.8	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	5.9	6.9	7.0
NNE	.9	1.1	2.8	3.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.1	4.8	6.9
NE	1.0	1.2	2.1	2.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.9	6.1
ENE	.8	1.0	1.7	2.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.8	3.3	6.1
E	.7	.8	2.1	2.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.0	3.6	6.9
ESE	.6	.7	2.9	3.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.8	4.5	7.8
SE	1.4	1.7	4.9	5.7	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	6.9	8.1	7.2
SSE	1.1	1.3	5.8	6.8	.8	1.0	.5	.5	.1	.1	.0	.1	.0	.0	8.2	9.7	8.5
S	1.3	1.5	8.2	9.6	1.2	1.4	.8	.9	.3	.3	.1	.1	.0	.0	11.8	13.9	9.1
SSW	.5	.6	3.7	4.4	.8	.9	.5	.6	.2	.3	.0	.0	.0	.0	5.8	6.9	9.9
SW	.6	.6	2.6	3.1	.3	.4	.2	.3	.1	.1	.0	.1	.0	.0	3.9	4.5	8.7
WSW	.3	.4	1.6	1.9	.2	.2	.1	.2	.1	.1	.0	.1	.0	.0	2.3	2.8	9.0
W	.4	.5	1.6	1.9	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.7	3.1	9.2
WNW	.3	.4	2.1	2.5	.6	.7	.5	.5	.2	.2	.0	.0	.0	.0	3.7	4.4	10.9
NW	.6	.7	3.2	3.8	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	5.2	6.1	9.8
NNW	.4	.5	2.7	3.1	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.8	4.5	8.8
CALM	7.8	9.2													7.8	9.2	
TOTAL	20.1	23.6	52.0	61.1	7.2	8.4	4.0	4.8	1.4	1.6	.4	.4	.1	.1	85.2	100	7.6

WIND GRAPH

HUF TERRE HAUTE, IN

CLASS 2 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 2 / DAY

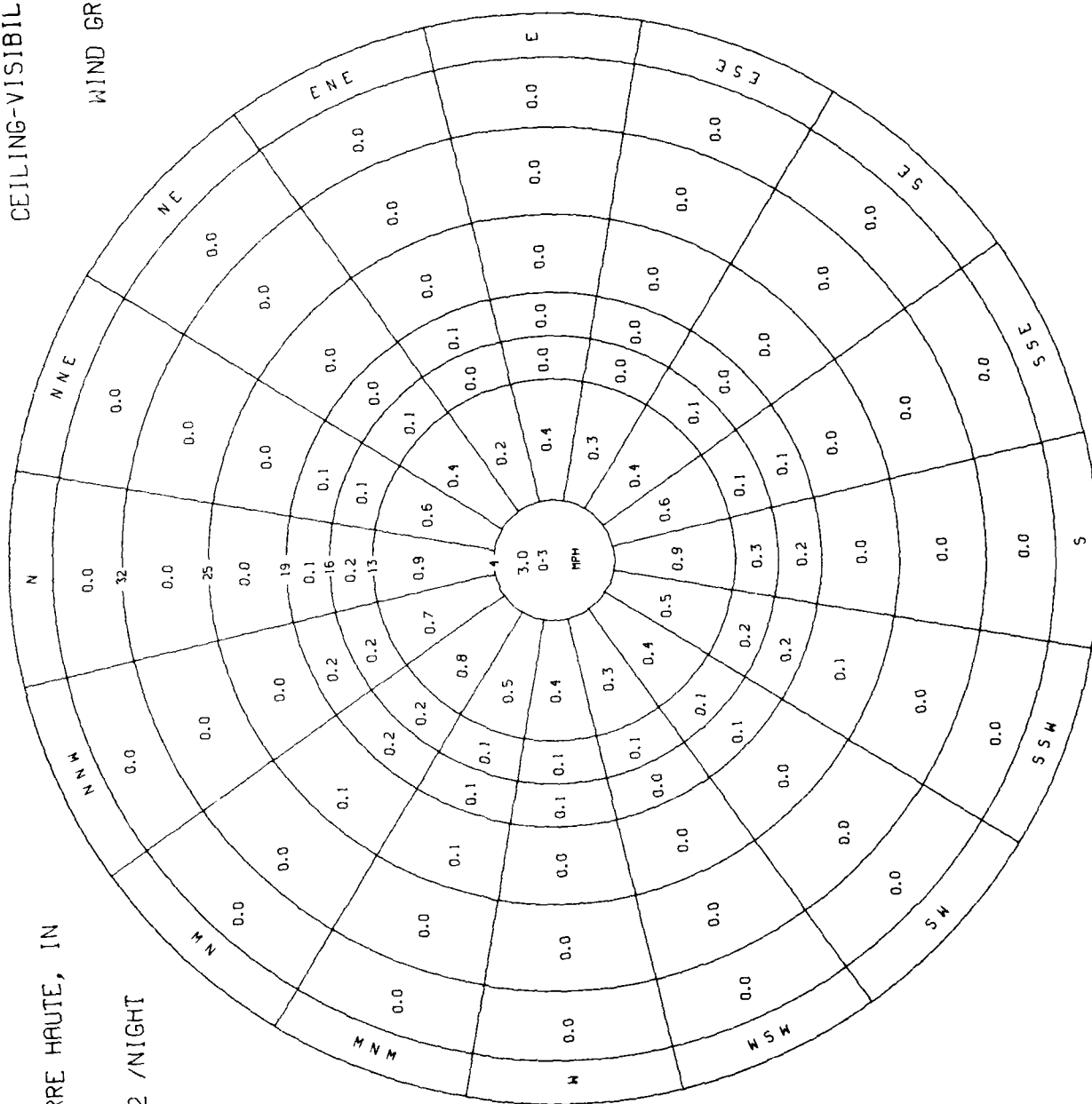
STATION NUMBER: 93823

NO. OBS.: 2142

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.1	.7	.7	5.6	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.0	1.0	7.9	9.3
NNE	.0	.3	.5	3.7	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.0	.7	5.4	10.0
NE	.1	.4	.3	2.5	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.4	3.5	8.4
ENE	.0	.1	.3	2.5	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.0	.4	3.1	9.4
E	.0	.2	.3	2.4	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.0	.4	3.2	9.7
ESE	.0	.1	.3	2.6	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.4	3.4	9.3
SE	.1	.5	.4	3.2	.1	.6	.1	.5	.0	.1	.0	.0	.0	.0	.0	.6	4.9	9.8
SSE	.0	.3	.5	4.3	.1	1.1	.1	.7	.0	.1	.0	.1	.0	.0	.0	.8	6.8	10.7
S	.1	.7	1.0	8.3	.2	1.8	.2	1.7	.1	.7	.1	.5	.0	.0	.0	1.7	13.7	11.1
SSW	.0	.3	.6	4.5	.1	.9	.2	1.2	.1	.5	.0	.2	.0	.0	.0	1.0	7.7	11.9
SW	.0	.3	.5	3.8	.1	.8	.1	.6	.0	.3	.0	.1	.0	.0	.0	.8	6.0	10.6
WSW	.0	.3	.3	2.2	.0	.4	.1	.4	.0	.1	.0	.0	.0	.0	.0	.4	3.5	10.4
W	.0	.4	.3	2.2	.1	.6	.1	.5	.0	.3	.0	.0	.0	.0	.0	.5	4.2	11.3
WNW	.0	.3	.4	3.1	.1	1.2	.1	1.1	.1	.7	.0	.2	.0	.0	.0	.8	6.7	13.0
NW	.1	.7	.5	4.2	.2	1.7	.2	1.2	.1	.7	.0	.1	.0	.0	.0	1.1	8.7	11.9
NNW	.1	.7	.5	4.1	.1	.9	.1	.8	.0	.2	.0	.1	.0	.0	.0	.9	6.9	10.6
CALM	.6	4.7														.6	4.7	
TOTAL	1.4	11.0	7.4	59.2	1.6	13.1	1.3	10.5	.6	4.5	.2	1.5	.0	.3	.0	12.5	100	10.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE. IN

PERIOD: 1948-1977

CLASS 2 / NIGHT

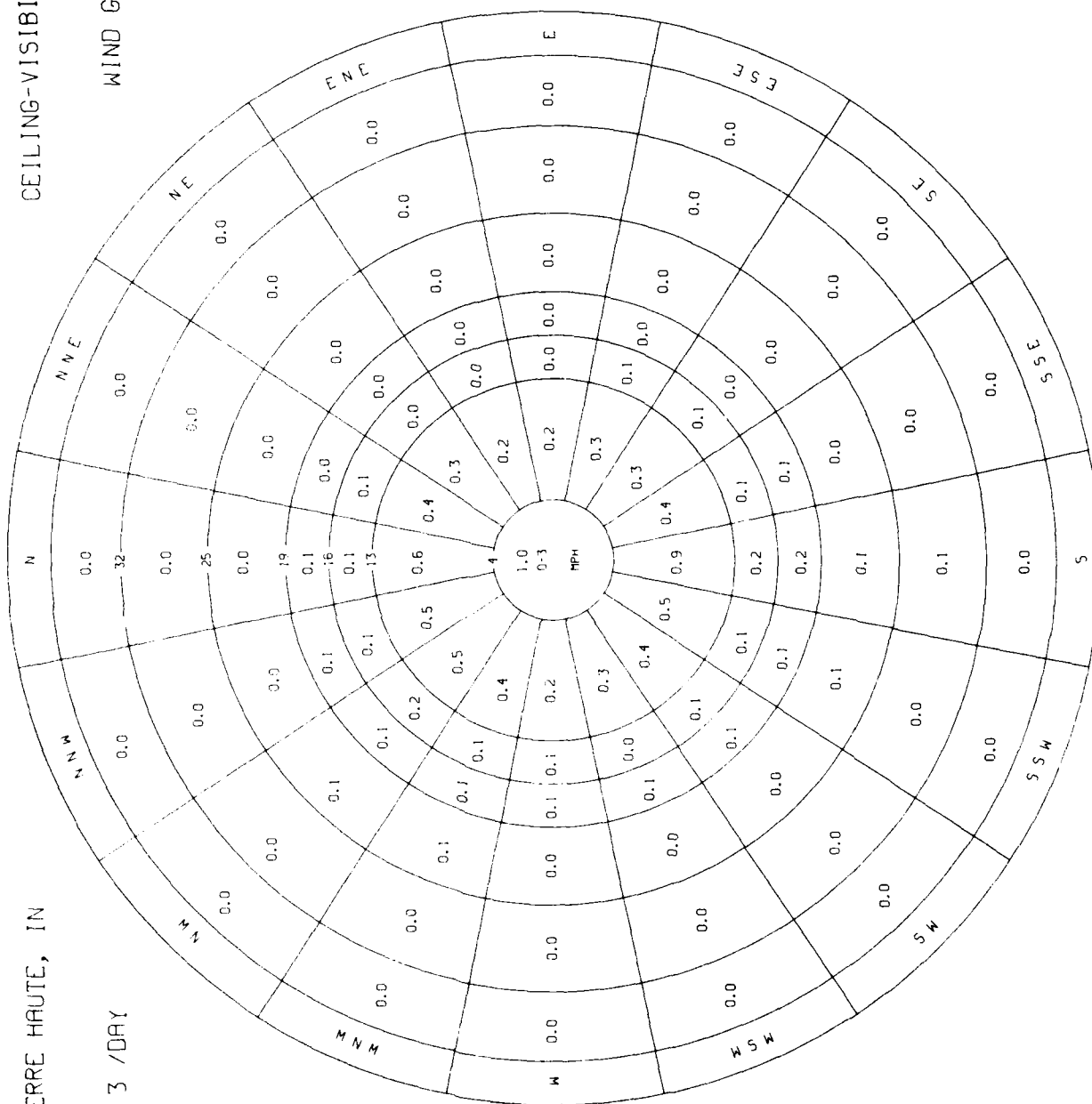
STATION NUMBER: 93823

NO. OBS.: 2228

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	1.5	.9	5.8	.2	1.1	.1	.6	.0	.2	.0	.1	.0	.0	1.4 9.4
NNE	.2	1.6	.6	4.0	.1	.8	.1	.4	.0	.1	.0	.0	.0	.0	1.0 6.9
NNE	.1	.9	.4	2.8	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.7 4.4
ENE	.0	.3	.2	1.5	.0	.2	.1	.4	.0	.1	.0	.0	.0	.0	.4 2.5
E	.1	.6	.4	2.5	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.5 3.5
ESE	.1	.5	.3	1.8	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4 2.8
SE	.1	1.0	.4	2.6	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6 4.3
SSE	.1	.9	.6	3.8	.1	.6	.1	.5	.0	.2	.0	.0	.0	.0	.9 6.1
S	.2	1.1	.9	5.9	.3	1.8	.2	1.1	.0	.3	.0	.1	.0	.0	1.5 10.3
SSW	.1	.6	.5	3.4	.2	1.2	.2	1.0	.1	.6	.0	.0	.0	.0	1.0 6.8
SW	.2	1.0	.4	2.7	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.8 5.1
WSW	.1	.5	.3	1.8	.1	.6	.0	.3	.0	.0	.0	.0	.0	.0	.5 3.3
W	.1	.4	.4	2.4	.1	.4	.1	.4	.0	.0	.0	.0	.0	.0	.5 3.7
WNW	.1	.4	.5	3.1	.1	.8	.1	.8	.1	.5	.0	.0	.0	.0	.8 5.6
NW	.1	1.0	.8	5.1	.2	1.5	.2	1.4	.1	.8	.0	.0	.0	.0	1.5 9.9
NNW	.1	.6	.7	4.5	.2	1.5	.2	1.1	.0	.2	.0	.1	.0	.0	1.2 8.0
CALM	1.1	7.4													1.1 7.4
TOTAL	3.0	20.5	8.0	53.6	1.8	12.3	1.4	9.2	.5	3.7	.1	.5	.0	.1	14.8 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 3 / DAY

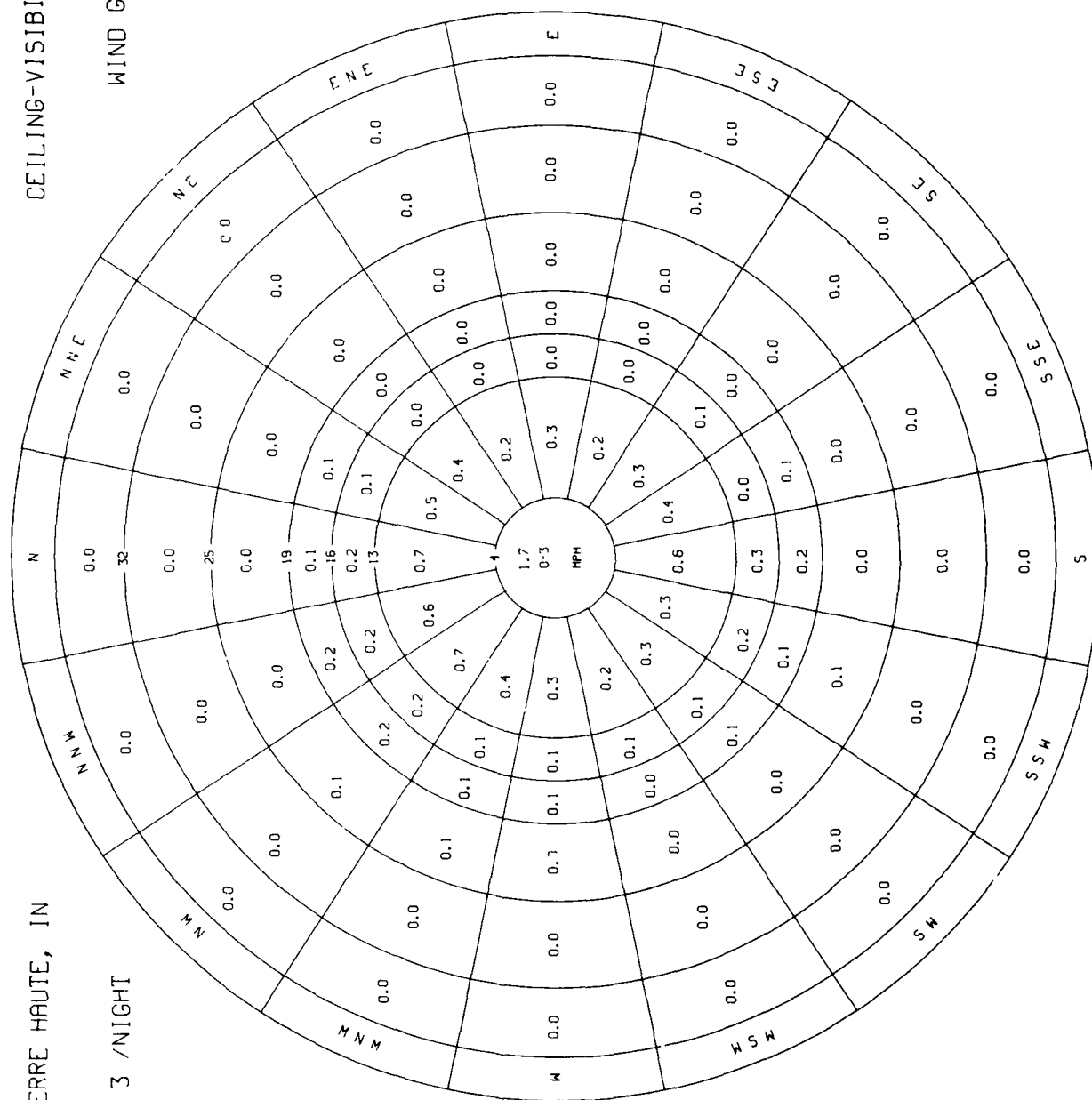
STATION NUMBER: 93823

NO. OBS.: 1842

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.5	.6	5.6	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.8 7.7
NNE	.0	.2	.4	3.9	.1	1.0	.0	.2	.0	.2	.0	.0	.0	.0	.6 5.6
NE	.0	.4	.3	2.6	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4 3.6
ENE	.0	.1	.2	2.1	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.3 2.7
E	.0	.1	.2	2.2	.0	.1	.0	.3	.0	.1	.0	.0	.0	.1	.3 2.9
ESE	.0	.2	.3	2.6	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.4 3.5
SE	.0	.3	.3	2.8	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.5 4.3
SSE	.0	.3	.4	4.0	.1	1.2	.1	.9	.0	.2	.0	.1	.0	.0	.7 6.6
S	.1	.6	.9	8.4	.2	1.9	.2	1.6	.1	.8	.1	.5	.0	.1	1.5 13.9
SSW	.0	.2	.5	4.4	.1	.9	.1	1.2	.1	.6	.0	.2	.0	.1	.8 7.5
SW	.0	.4	.4	3.9	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.7 6.2
WSW	.0	.3	.3	2.4	.0	.4	.1	.5	.0	.1	.0	.1	.0	.1	.4 3.8
W	.0	.4	.2	2.3	.1	.7	.1	.6	.0	.4	.0	.1	.0	.0	.5 4.4
WNW	.0	.3	.4	3.4	.1	1.2	.1	1.3	.1	.8	.0	.2	.0	.0	.8 7.3
NW	.1	.5	.5	4.2	.2	2.0	.1	1.4	.1	.8	.0	.1	.0	.1	1.0 9.1
NNW	.1	.7	.5	4.2	.1	1.1	.1	1.0	.0	.2	.0	.2	.0	.0	.8 7.3
CALM	.4	3.6													.4 3.6
TOTAL	1.0	9.1	6.4	58.9	1.5	14.1	1.2	11.2	.5	4.9	.2	1.6	.0	.3	10.8 10.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1977

STATION NAME: HUF TERRE HAUTE, IN

CLASS 3 / NIGHT

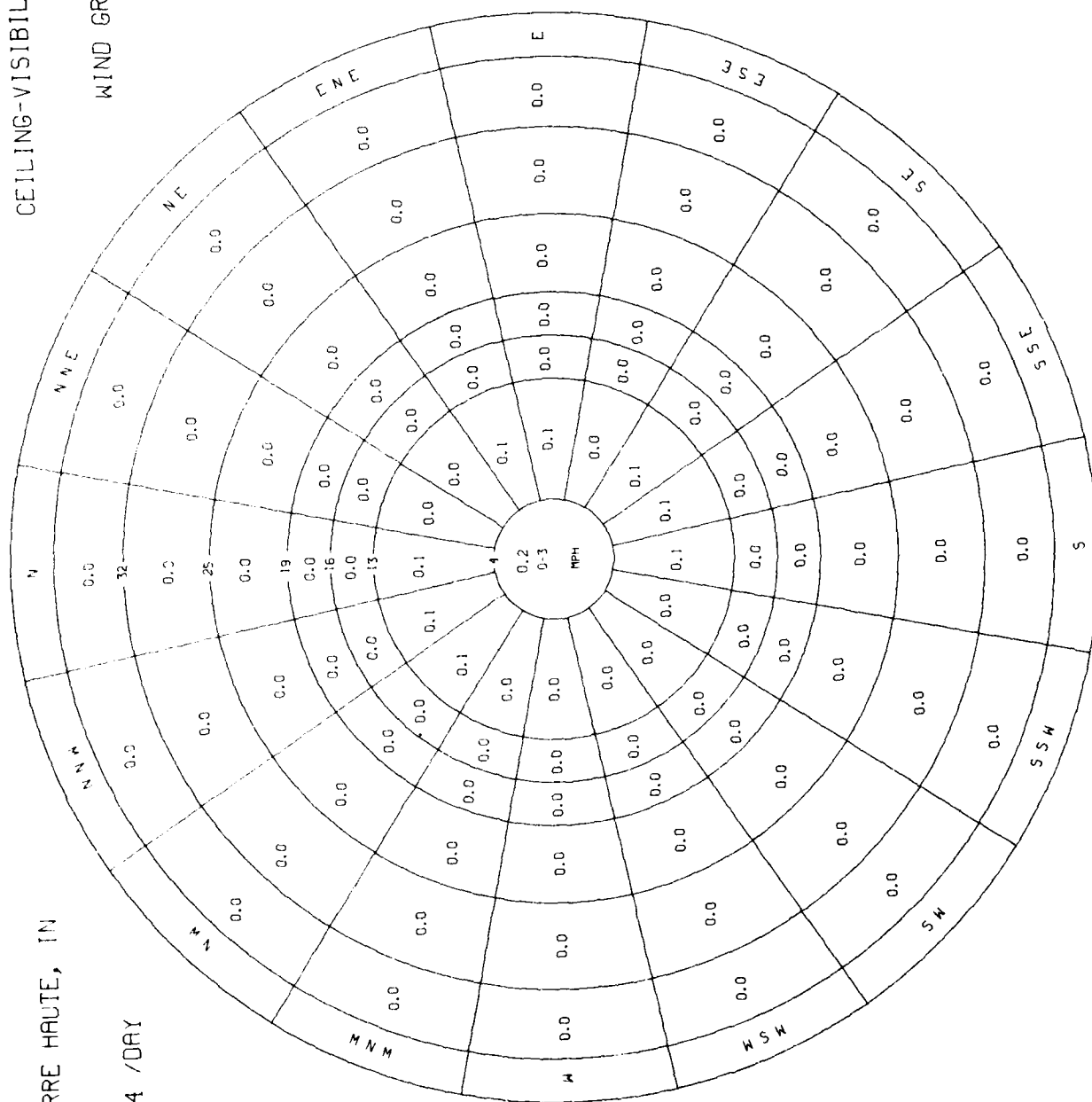
NO. OBS.: 1747

STATION NUMBER: 93823

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	1.0	.7	6.2	.2	1.4	.1	.7	.0	.3	.0	.1	.0	.0	1.1	9.7	9.9
NNE	.2	1.4	.5	4.5	.1	.9	.1	.5	.0	.1	.0	.0	.0	.0	.9	7.3	8.8
NE	.1	1.0	.4	3.2	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.6	5.0	8.3
ENE	.0	.2	.2	1.6	.0	.1	.0	.3	.0	.2	.0	.0	.0	.1	.3	2.5	10.6
E	.0	.4	.3	2.5	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4	3.3	8.9
ESE	.0	.4	.2	1.7	.0	.1	.0	.1	.0	.1	.0	.1	.0	.0	.3	2.5	9.1
SE	.1	.7	.3	2.3	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	4.0	8.4
SSE	.1	.7	.4	3.3	.0	.4	.1	.6	.0	.3	.0	.0	.0	.0	.6	5.3	9.7
S	.1	.6	.6	5.4	.3	2.2	.2	1.4	.0	.3	.0	.1	.0	.0	1.2	10.1	11.2
SSW	.0	.3	.3	2.9	.2	1.3	.1	1.2	.1	.6	.0	.1	.0	.0	.7	6.4	12.6
SW	.1	.6	.3	2.7	.1	.9	.1	.7	.0	.2	.0	.1	.0	.0	.6	5.1	10.4
WSW	.1	.5	.2	1.6	.1	.7	.0	.3	.0	.1	.0	.0	.0	.1	.4	3.3	10.5
W	.0	.4	.3	2.5	.1	.5	.1	.5	.0	.1	.0	.1	.0	.0	.5	4.0	10.1
WNW	.0	.3	.4	3.5	.1	1.0	.1	1.0	.1	.6	.0	.1	.0	.0	.8	6.6	11.9
NW	.1	.6	.7	5.7	.2	1.8	.2	1.8	.1	.9	.0	.0	.0	.1	1.3	10.8	11.9
NNW	.1	.6	.6	5.1	.2	1.7	.2	1.4	.0	.2	.0	.1	.0	.0	1.1	9.2	11.2
CALM	.6	4.9													.6	4.9	
TOTAL	1.7	14.7	6.4	54.8	1.7	14.2	1.3	11.3	.5	4.2	.1	.6	.0	.2	11.6	100	10.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

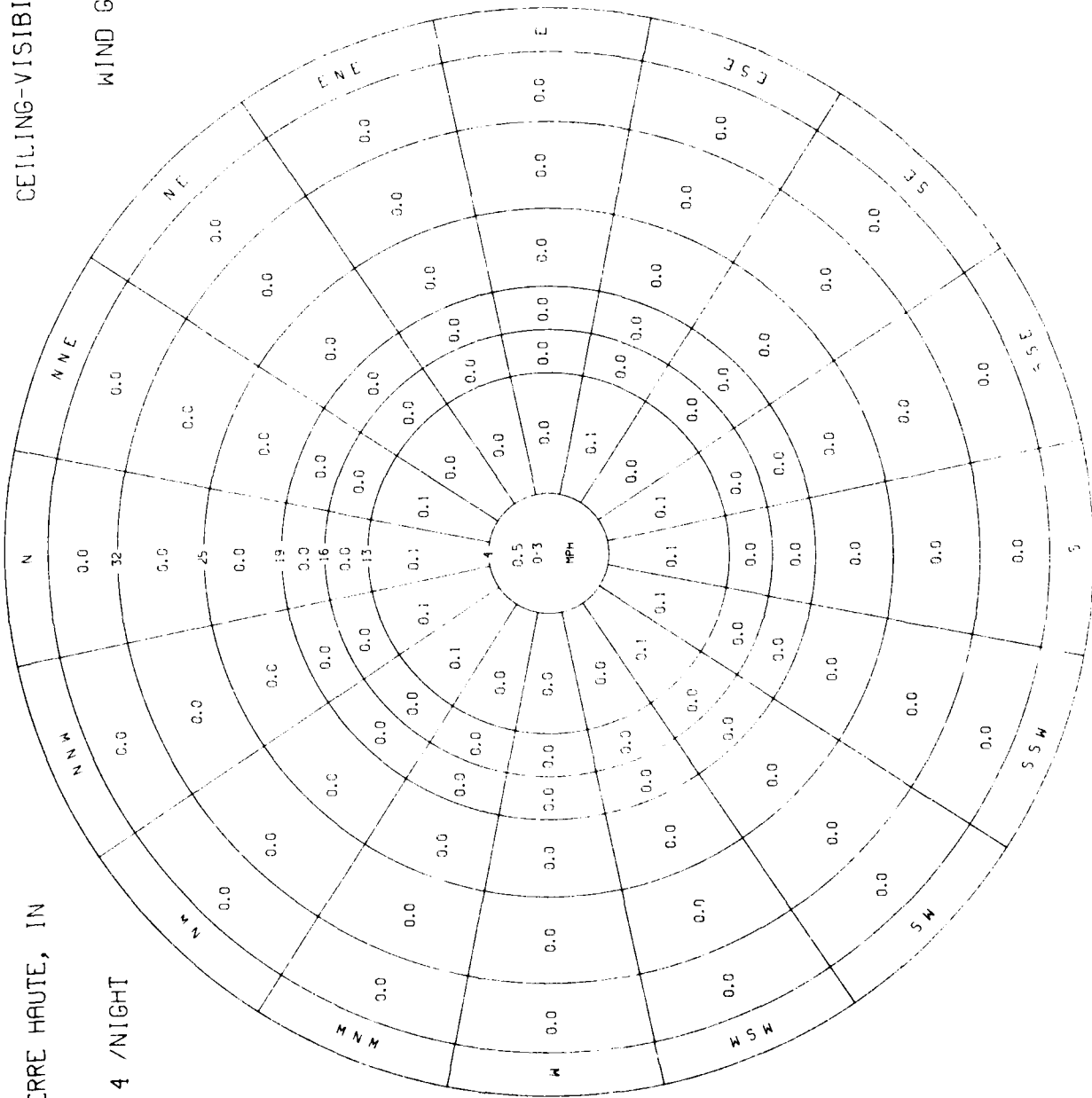
CLASS 4 / DAY

STATION NUMBER: 93823

NO. OBS.: 206

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.0	.1	5.8	.0	1.9	.0	.5	.0	.0	.0	.0	.0	.0	.1 9.2
NNE	.0	.5	.0	2.9	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0 3.9
NE	.0	.5	.0	1.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
ENE	.0	.0	.1	6.3	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.1 6.8
E	.0	.5	.1	4.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1 5.3
ESE	.0	.0	.0	3.4	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.1 4.4
SE	.0	1.0	.1	4.9	.0	.5	.0	1.5	.0	.0	.0	.0	.0	.0	.1 7.8
SSE	.0	.5	.1	5.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1 6.8
S	.0	.0	.1	7.3	.0	1.5	.0	1.9	.0	.0	.0	.0	.0	.0	.1 10.7
SSW	.0	.5	.0	3.9	.0	1.0	.0	1.0	.0	.0	.0	.5	.0	.0	.1 6.8
SW	.0	.0	.0	3.9	.0	.5	.0	.0	.0	.5	.0	.5	.0	.0	.1 5.3
WSW	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
W	.0	.5	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
WNW	.0	1.0	.0	1.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
NW	.0	1.5	.1	5.8	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	.1 8.7
NNW	.0	.5	.1	4.4	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.1 5.3
CALM	.1	7.8													.1 7.8
TOTAL	.2	15.5	.8	65.5	.1	9.7	.1	5.8	.0	2.4	.0	1.0	.0	.0	1.2 10.0
															8.3

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 4 / NIGHT

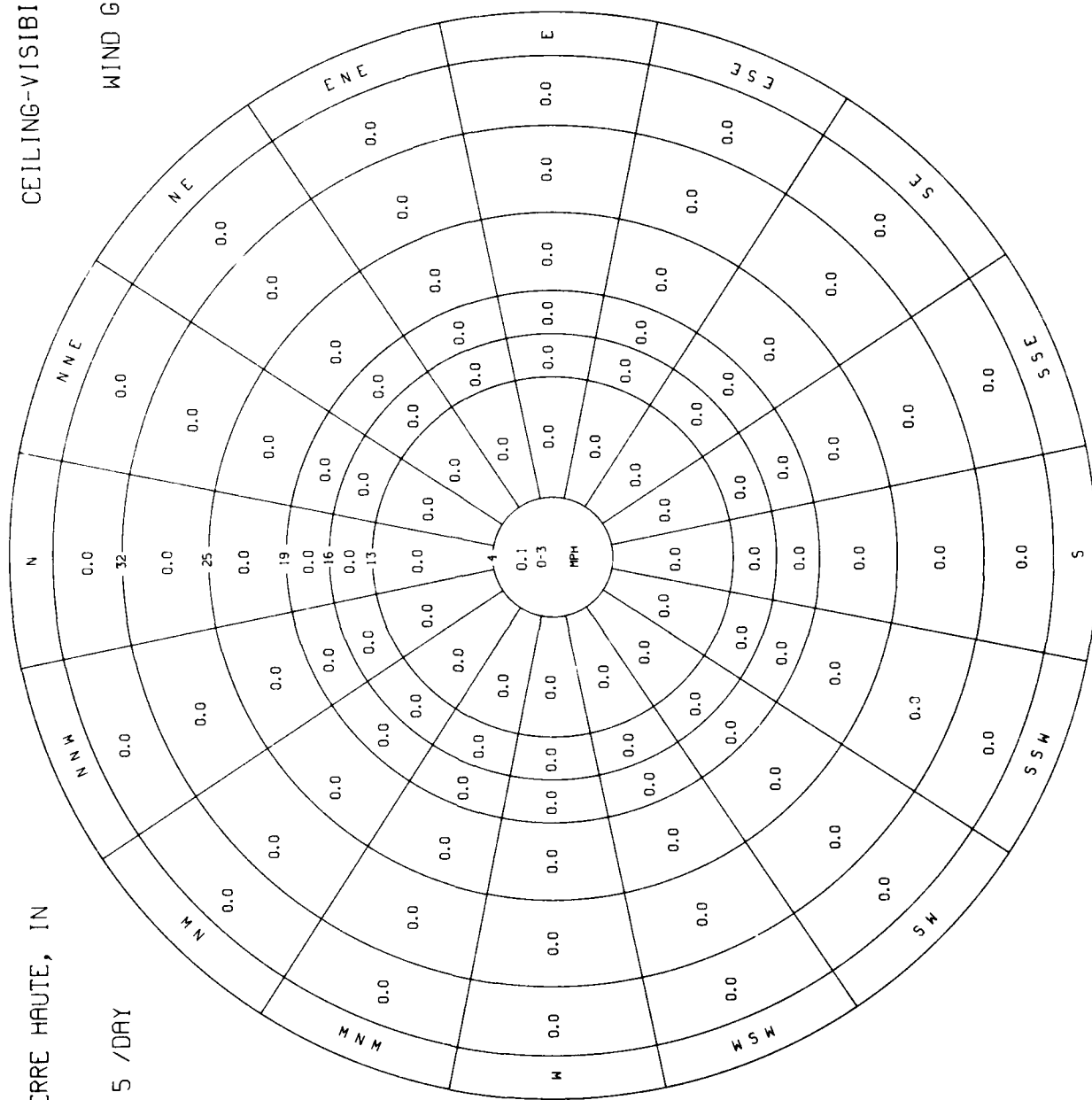
STATION NUMBER: 93823

NO. OBS.: 246

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	4.5	.1	6.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.2 12.2
NNE	.0	1.6	.1	3.3	.0	.8	.0	.4	.0	.4	.0	.0	.0	.0	.1 6.5
NE	.0	.0	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
ENE	.0	.0	.0	.8	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0 2.0
E	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.1 3.3
ESE	.0	.4	.1	3.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.5
SE	.0	2.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.9
SSE	.0	1.6	.1	4.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.3
S	.0	.8	.1	6.1	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.1 7.3
SSW	.0	.4	.1	4.1	.0	.4	.0	.8	.0	1.2	.0	.0	.0	.0	.1 6.9
SW	.0	2.4	.1	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 6.5
WSW	.0	.8	.0	2.0	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1 3.7
W	.0	.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.3
WNW	.0	.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
NW	.1	3.3	.1	4.5	.0	.8	.0	.4	.0	.8	.0	.0	.0	.0	.2 9.8
NNW	.0	.8	.1	4.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.1 6.5
CALM	.2	10.6													.2 10.6
TOTAL	.5	30.1	.9	55.3	.1	8.1	.0	2.8	.1	3.3	.0	.4	.0	.0	1.6 100
															7.4

CEILING-VISIBILITY

WIND GRAPH



HUF TERRE HAUTE, IN

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 5 / DAY

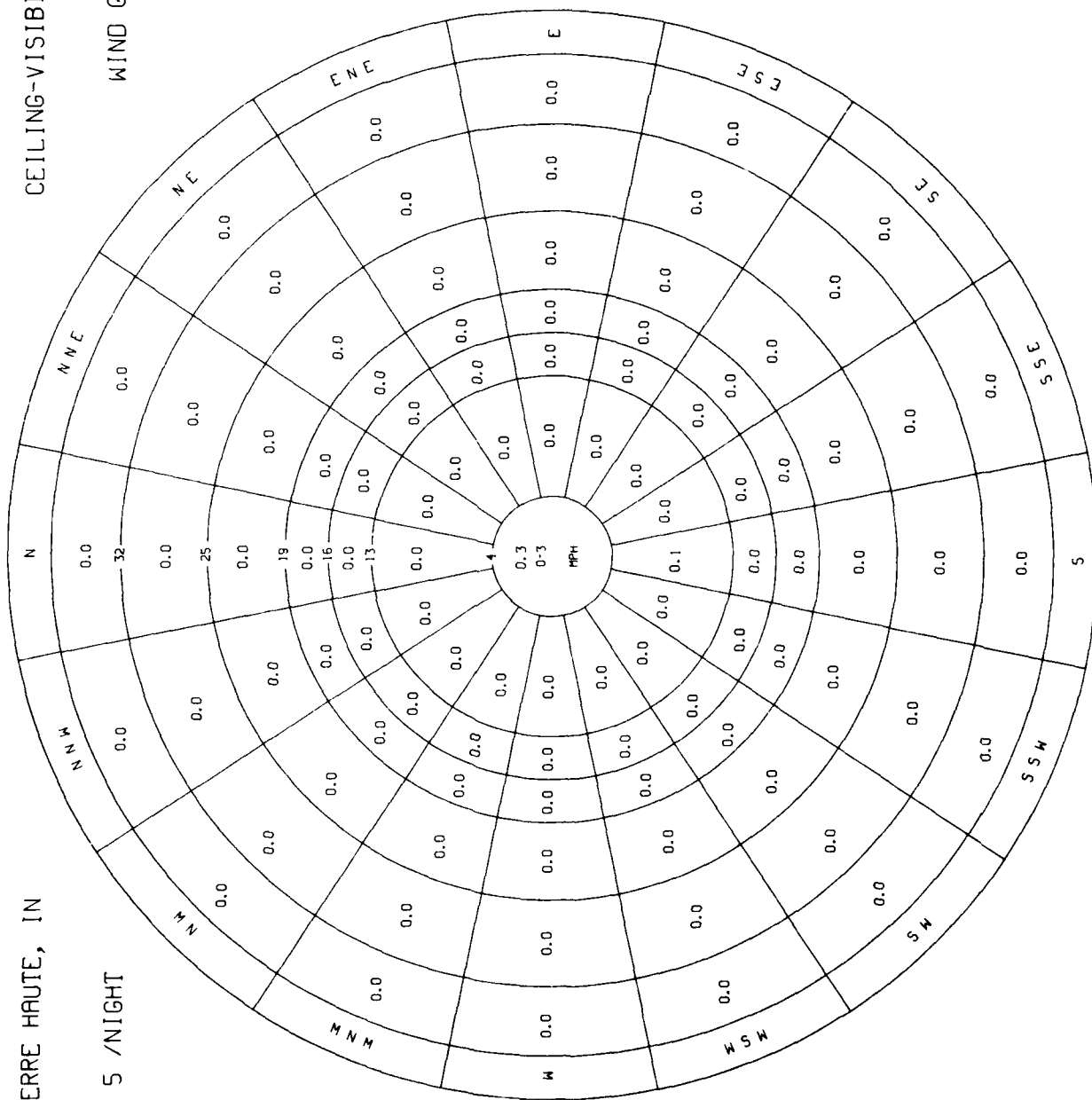
STATION NUMBER: 93823

NO. OBS.: 48

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.5
NNE	.0	.0	.0	.0	.0	.0	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	4.2	19.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	4.2	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	6.3	9.7
E	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	12.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	4.2	.0	12.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	6.3
SSE	.0	2.1	.0	10.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	7.0
S	.0	8.3	.0	10.4	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	22.9	7.8
SSW	.0	2.1	.0	6.3	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	12.5	9.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	4.2	20.0
NW	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	3.0
NNW	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	1.0
CALM	.0	10.4													.0	10.4	
TOTAL	.1	31.3	.1	52.1	.0	2.1	.0	10.4	.0	2.1	.0	2.1	.0	.0	.3	100	7.7

CEILING-VISIBILITY

WIND GRAPH



HUF TERRE HAUTE, IN

CLASS 5 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 5 / NIGHT

STATION NUMBER: 93823

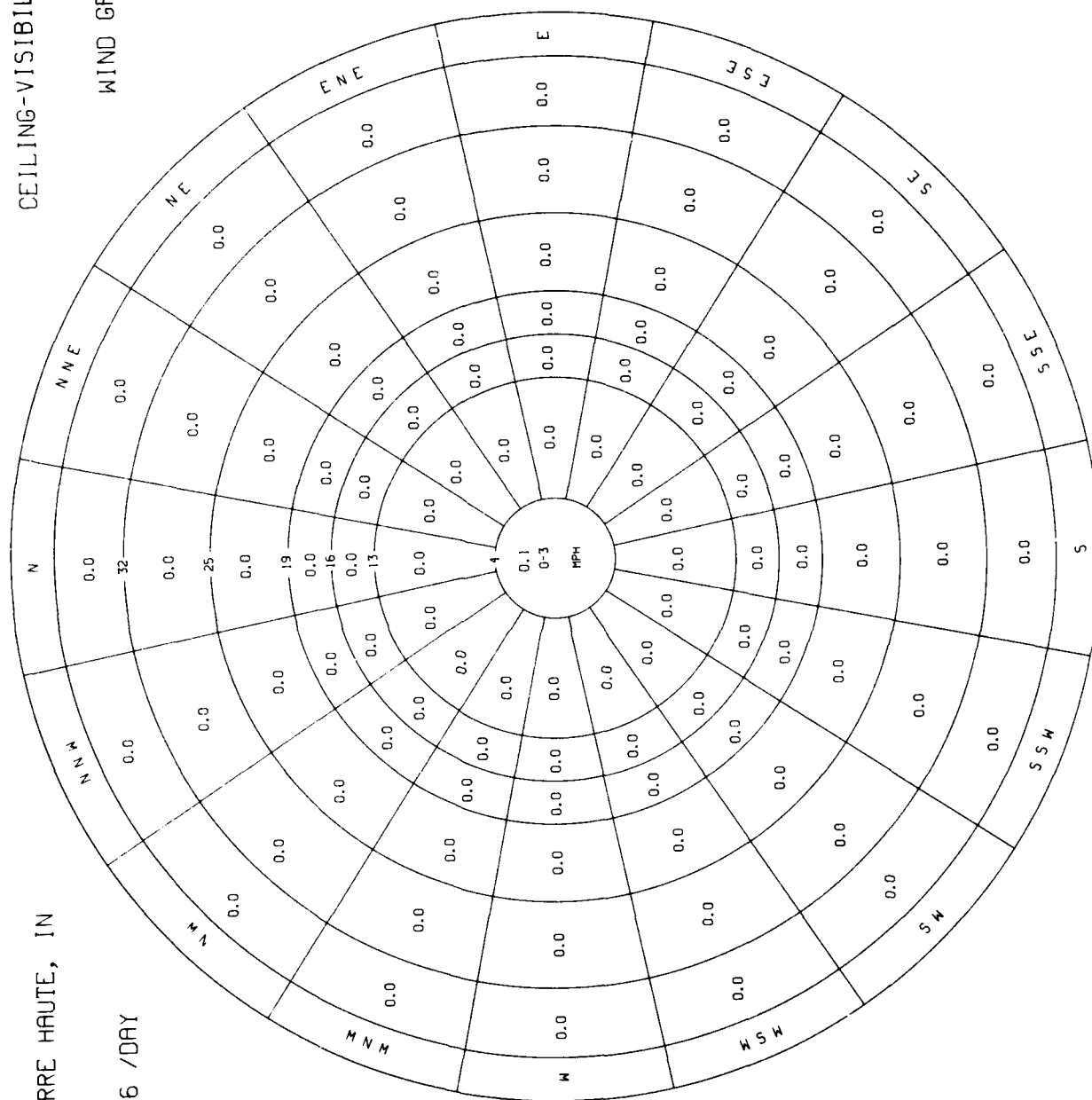
NO. OBS.: 86

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0 3.5
NNE	.0	3.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.8
NNE	.0	2.3	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
ENE	.0	3.5	.0	2.3	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0 7.0
E	.0	5.8	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.1
ESE	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
SE	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
SSE	.0	.0	.0	4.7	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.0
S	.0	4.7	.1	11.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 16.3
SSW	.0	2.3	.0	5.8	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 10.5
SW	.0	1.2	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
WSW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
W	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
WNW	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
NW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.1	20.9													.1 20.9
TOTAL	.3	47.7	.3	45.3	.0	4.7	.0	1.2	.0	.0	.0	1.2	.0	.0	.6 100
															5.5

WIND GRAPH

HUF TERRE HAUTE, IN

CLASS 6 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1977

STATION NAME: HUF TERRE HAUTE, IN

CLASS 6 / DAY

NO. OBS.: 46

STATION NUMBER: 93823

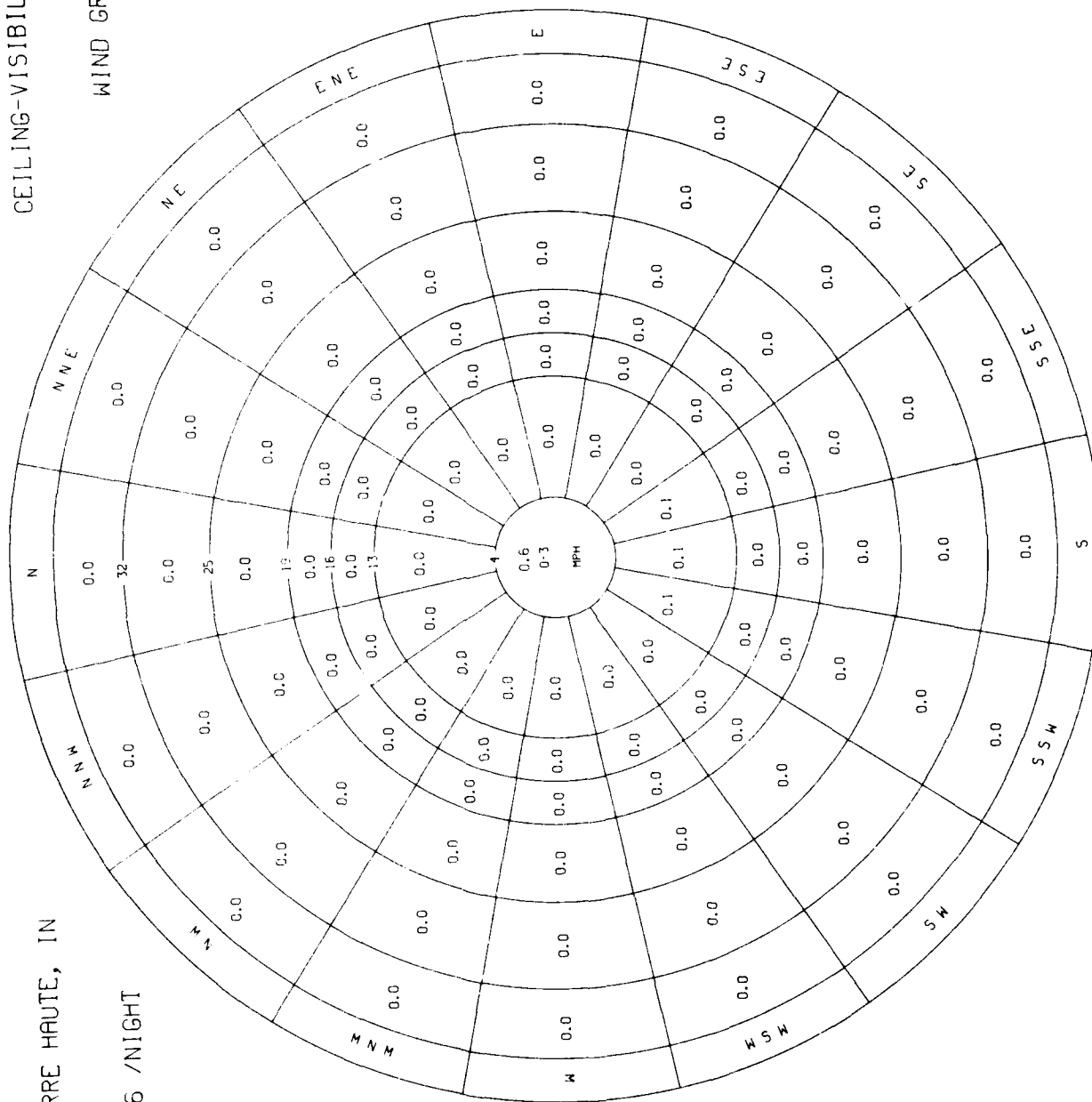
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	4.3	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 13.0
NNE	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.3
NE	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
E	.0	4.3	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SE	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.3
SSE	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5
S	.0	2.2	.0	6.5	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0 10.9
SSW	.0	2.2	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 10.9
SW	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5
WSW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
W	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.3
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
NNW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
CALM	.1	26.1													.1 26.1
TOTAL	.1	45.7	.1	50.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	2.2	.3 100
															4.9

HUF TERRE HAUTE, IN

WIND GRAPH

CLASS 6 /NIGHT

CLASS 6 /NIGHT



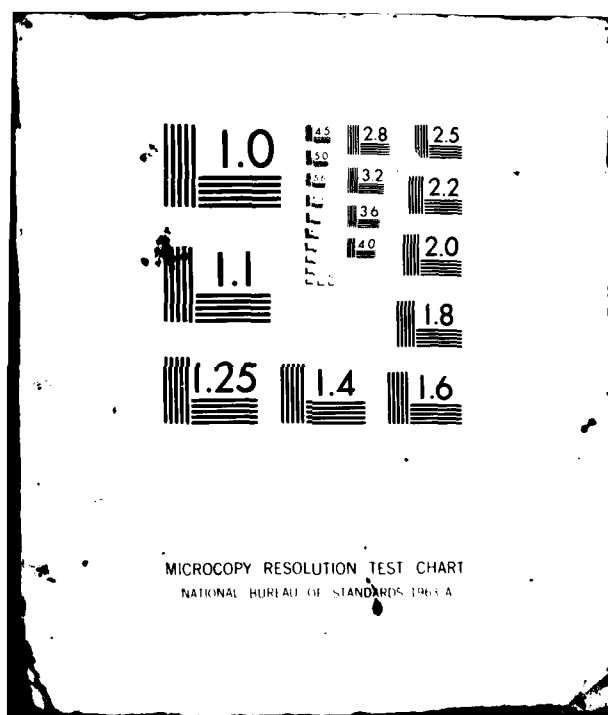
NATIONAL CLIMATIC CENTER ASHEVILLE NC

WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS, VOLUME I--ETC(U)
JUN 81 DOT-FA79WAI-057

DOT-FA79WAI-057

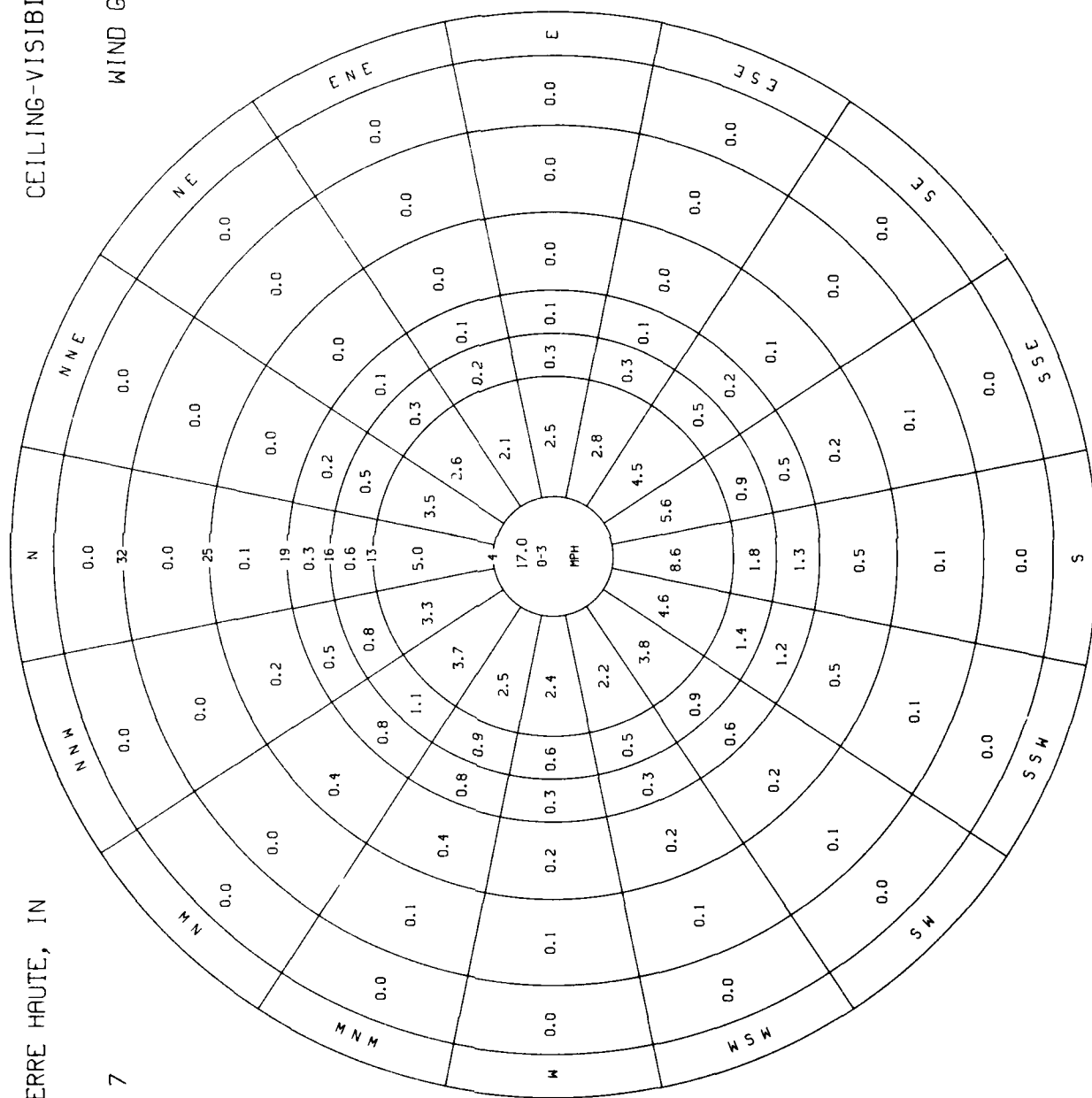
NL

[illegible]



CEILING-VISIBILITY

WIND GRAPH



HUF TERRE HAUTE, IN

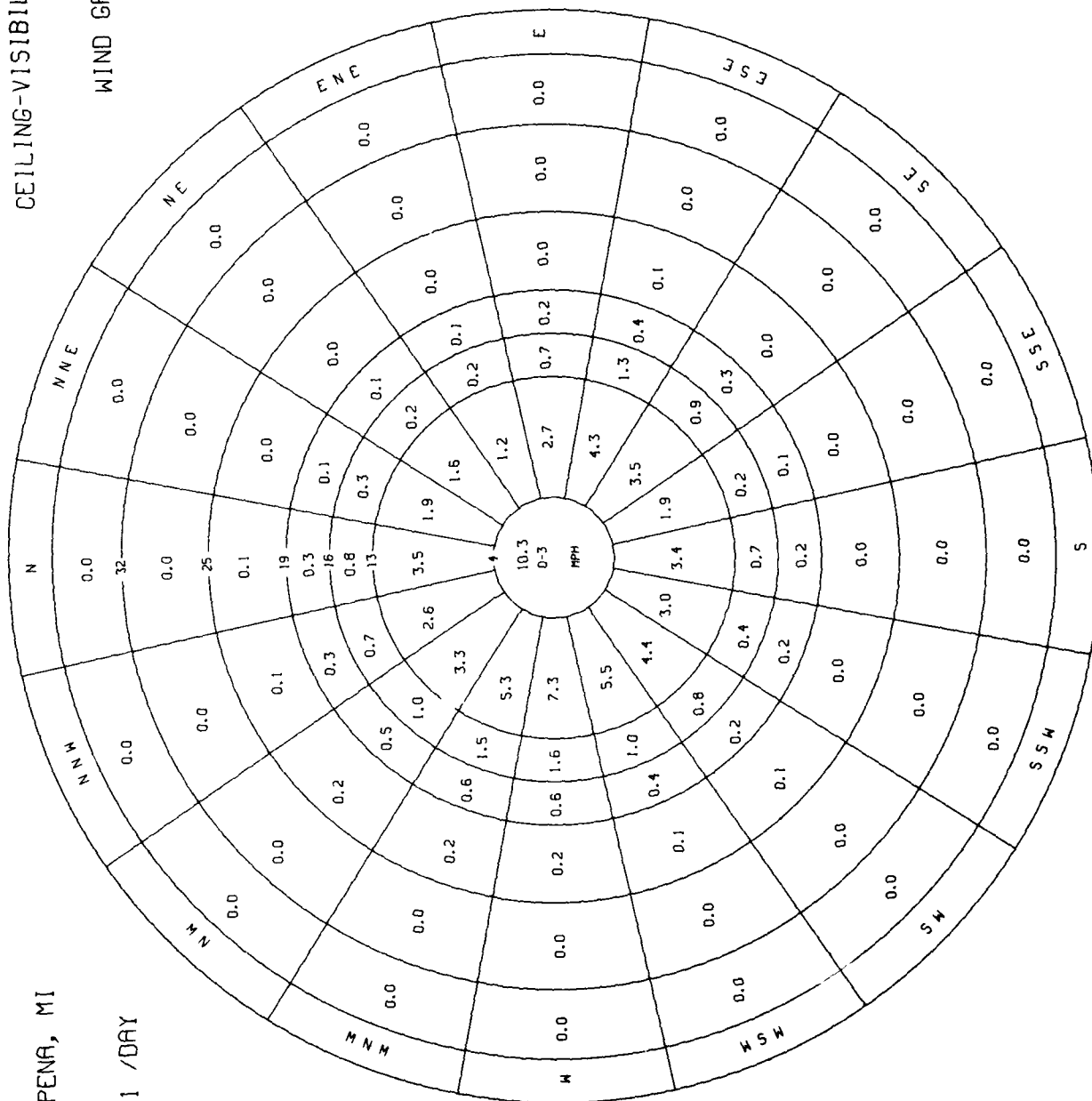
CLASS 7

CEILING-VISIBILITY

WIND GRAPH

APN ALPENA, MI

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 1 / DAY

STATION NUMBER: 94849

NO. OBS.: 17377

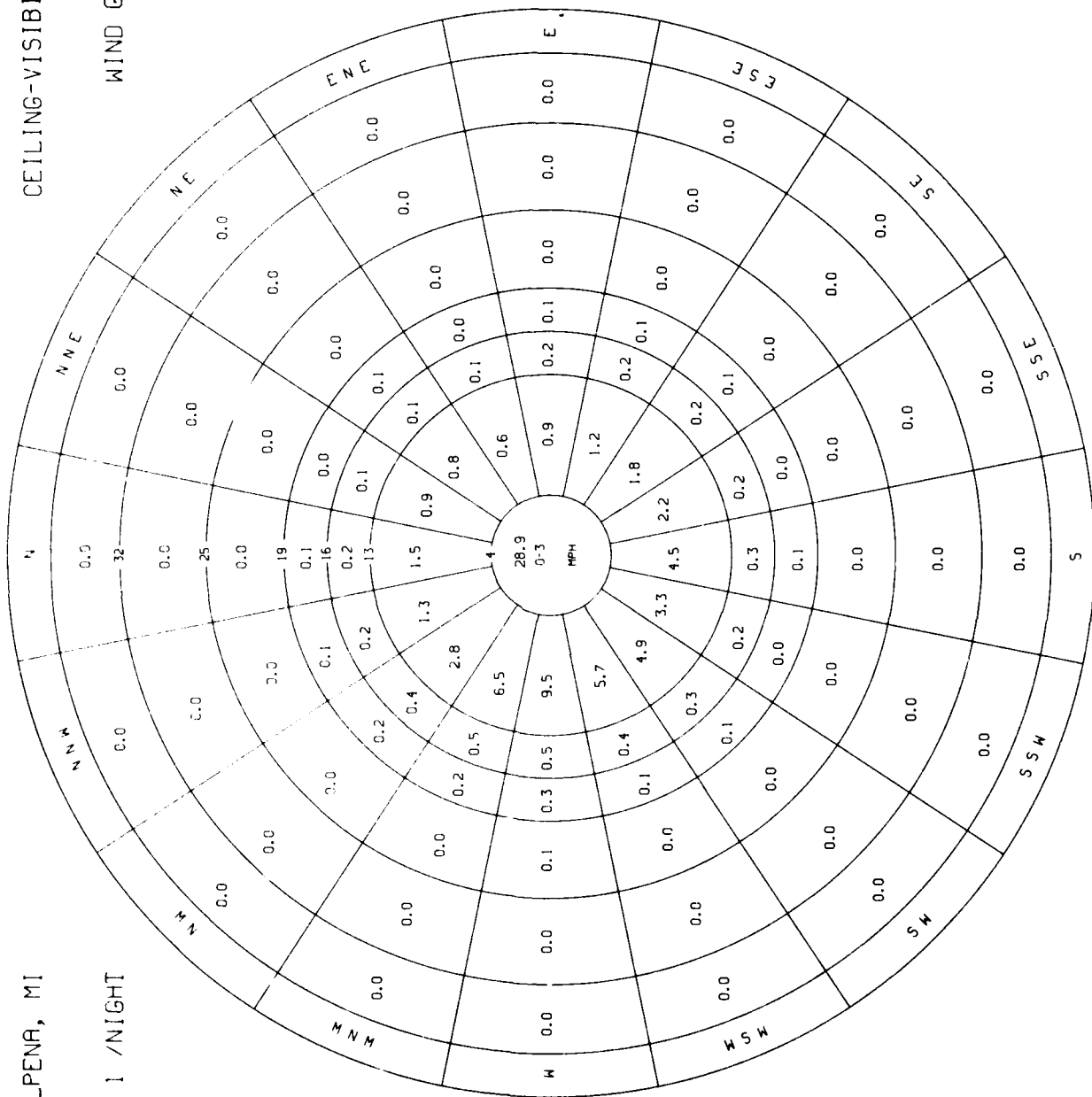
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.5	.6	3.5	4.1	.8	.9	.3	.4	.1	.1	.0	.0	.0	.0	5.2	6.1	9.2
NNE	.4	.4	1.9	2.3	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.2	8.5
NE	.4	.4	1.6	1.9	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.8	8.1
ENE	.4	.5	1.2	1.5	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	2.0	2.4	8.4
E	.4	.5	2.7	3.2	.7	.9	.2	.2	.0	.1	.0	.0	.0	.0	4.1	4.8	9.4
ESE	.4	.5	4.3	5.1	1.3	1.6	.4	.5	.1	.1	.0	.0	.0	.0	6.6	7.8	10.2
SE	.5	.6	3.5	4.1	.9	1.0	.3	.3	.0	.1	.0	.0	.0	.0	5.2	6.2	9.2
SSE	.5	.6	1.9	2.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.2	7.5
S	.6	.7	3.4	4.1	.7	.8	.2	.2	.0	.0	.0	.0	.0	.0	4.9	5.9	8.6
SSW	.6	.7	3.0	3.5	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	4.2	5.0	8.3
SW	.8	.9	4.4	5.2	.8	.9	.2	.3	.1	.1	.0	.0	.0	.0	6.3	7.5	8.6
WSW	.9	1.1	5.5	6.5	1.0	1.2	.4	.5	.1	.1	.0	.0	.0	.0	8.0	9.5	8.8
W	1.2	1.5	7.3	8.6	1.6	1.9	.6	.7	.2	.2	.0	.0	.0	.0	10.9	13.0	9.1
WNW	.8	.9	5.3	6.3	1.5	1.8	.6	.7	.2	.2	.0	.0	.0	.0	8.5	10.0	9.8
NW	.6	.7	3.3	4.0	1.0	1.2	.5	.6	.2	.2	.0	.0	.0	.0	5.6	6.6	9.9
NNW	.4	.5	2.6	3.1	.7	.9	.3	.4	.1	.1	.0	.0	.0	.0	4.1	4.9	9.7
CALM	1.0	1.2													1.0	1.2	
TOTAL	10.3	12.3	55.6	65.9	12.5	14.8	4.6	5.4	1.2	1.4	.1	.2	.0	.0	84.4	100	9.0

CEILING-VISIBILITY

WIND GRAPH

APN ALPENA, MI

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 1 / NIGHT

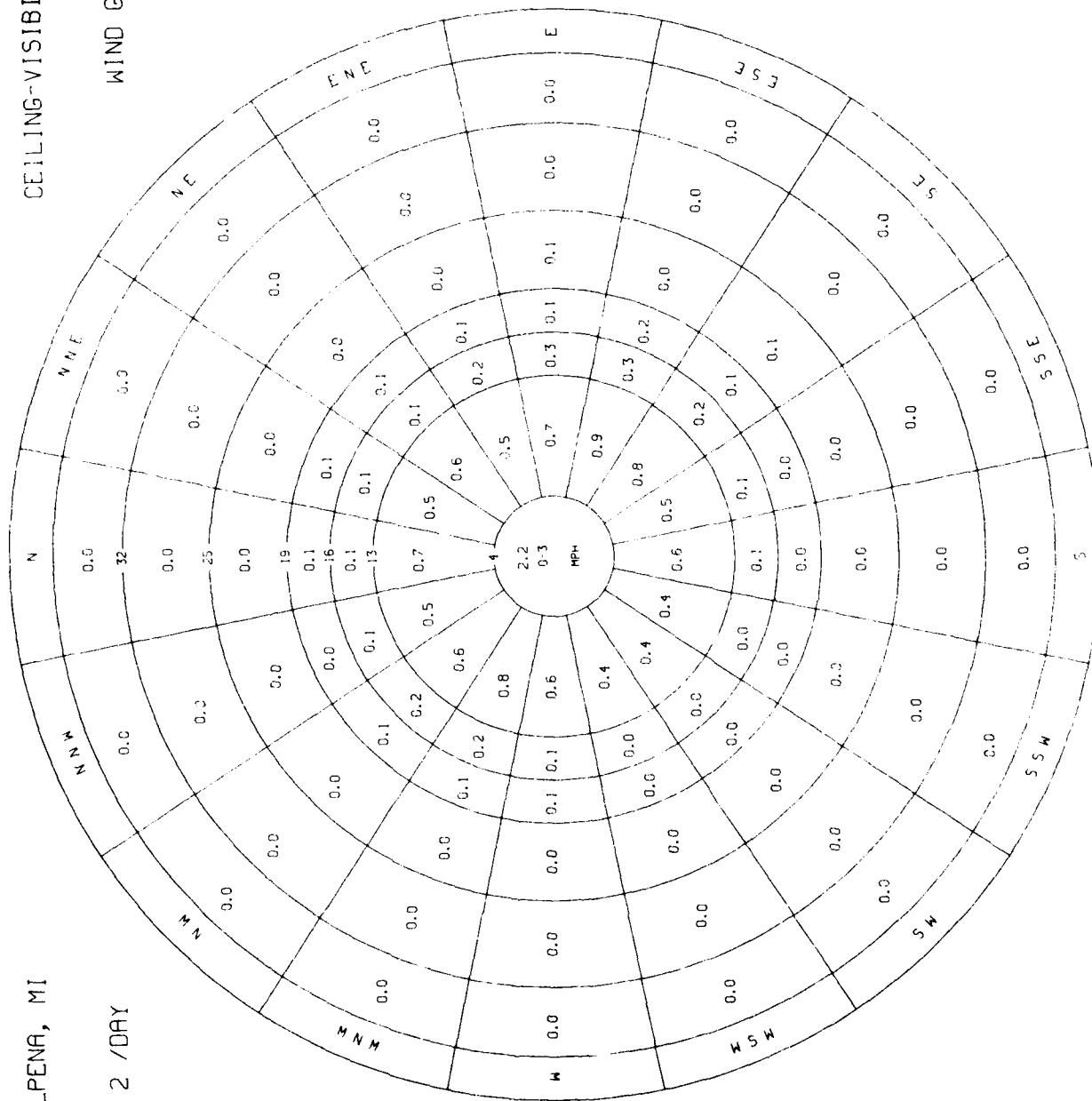
STATION NUMBER: 94849

NO. OBS.: 14486

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.9	1.1	1.5	1.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.3	6.6
NNE	.6	.7	.9	1.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.6	2.0	6.3
NE	.6	.7	.8	1.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.6	1.9	6.4
ENE	.5	.6	.6	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.5	6.7
E	.5	.6	.9	1.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.6	1.9	7.2
ESE	.6	.8	1.2	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.1	2.5	7.1
SE	1.1	1.3	1.8	2.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.3	3.9	6.3
SSE	1.6	1.9	2.2	2.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	4.0	4.8	5.5
S	2.6	3.1	4.5	5.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	7.5	9.0	6.0
SSW	1.6	2.0	3.3	3.9	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	5.2	6.2	6.1
SW	2.5	3.0	4.9	5.9	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	7.8	9.4	6.0
WSW	3.1	3.7	5.7	6.9	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	9.4	11.3	6.0
W	4.0	4.8	9.5	11.4	.5	.7	.3	.3	.1	.1	.0	.0	.0	.0	14.4	17.3	6.3
WNW	2.1	2.5	6.5	7.8	.5	.6	.2	.3	.0	.0	.0	.0	.0	.0	9.4	11.2	6.9
NW	1.1	1.4	2.8	3.3	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	4.5	5.3	7.1
NNW	.8	1.0	1.3	1.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.9	6.6
CALM	4.6	5.6													4.6	5.6	
TOTAL	28.9	34.7	48.4	58.1	4.1	4.9	1.6	1.9	.3	.4	.0	.1	.0	.0	83.4	100	6.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 2 / DAY

STATION NUMBER: 94849

NO. OBS.: 3216

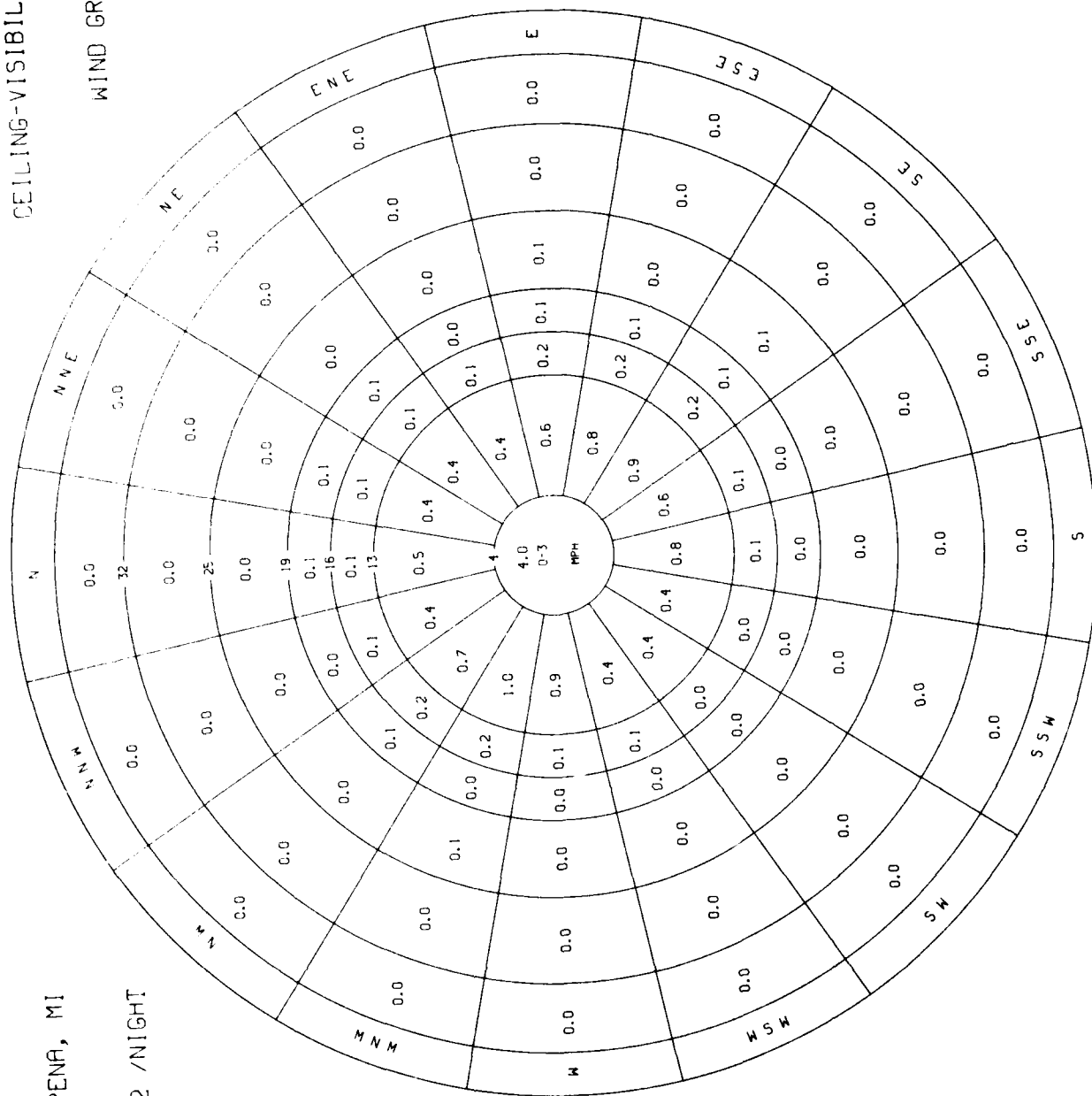
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.2	1.1	.7	4.7	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	1.2	7.6	9.2
NNE	.1	.6	.5	3.3	.1	.9	.1	.4	.0	.3	.0	.1	.0	.0	.9	5.6	10.3
NE	.1	.5	.6	3.8	.1	.6	.1	.4	.0	.3	.0	.1	.0	.0	.9	5.6	10.1
ENE	.1	.5	.5	3.2	.2	1.1	.1	.5	.0	.2	.0	.1	.0	.0	.9	5.6	10.6
E	.1	.5	.7	4.5	.3	1.7	.1	.9	.1	.5	.0	.1	.0	.0	1.3	8.1	11.0
ESE	.1	.5	.9	5.9	.3	1.9	.2	1.0	.0	.2	.0	.0	.0	.0	1.5	9.5	10.3
SE	.1	.5	.8	5.1	.2	1.2	.1	.9	.1	.3	.0	.0	.0	.0	1.3	8.1	10.4
SSE	.2	1.0	.5	3.3	.1	.5	.0	.2	.0	.2	.0	.0	.0	.0	.8	5.2	8.1
S	.2	1.3	.6	3.8	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	1.0	6.1	7.6
SSW	.1	.7	.4	2.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.5	6.3
SW	.2	1.0	.4	2.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.9	6.5
WSW	.2	1.1	.4	2.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.6	4.1	6.7
W	.2	1.5	.6	4.1	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	1.0	6.7	7.9
WNW	.1	.8	.8	4.9	.2	1.2	.1	.5	.0	.1	.0	.0	.0	.0	1.2	7.5	9.1
NW	.1	.5	.6	3.9	.2	1.0	.1	.6	.0	.3	.0	.0	.0	.0	1.0	6.3	10.5
NNW	.1	.5	.5	3.2	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.8	4.9	9.7
CALM	.3	1.7													.3	1.7	
TOTAL	2.2	14.3	9.6	61.8	2.1	13.7	1.1	6.8	.5	2.9	.1	.5	.0	.0	15.6	100	9.1

CEILING-VISIBILITY

WIND GRAPH

APN ALPENA, MI

CLASS 2 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 2 / NIGHT

STATION NUMBER: 94849

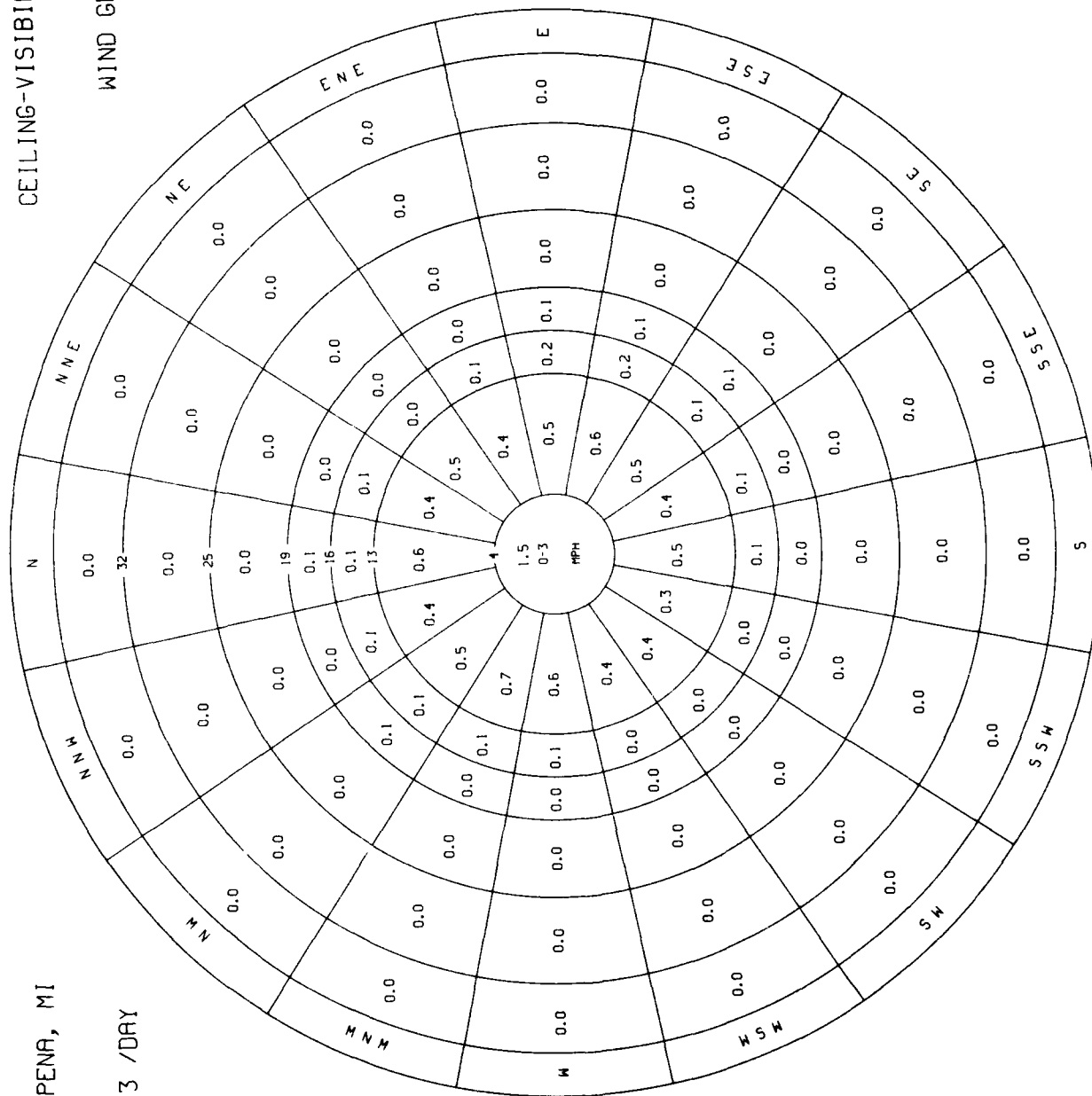
NO. OBS.: 2893

O I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	1.1	.5	3.1	.1	.8	.1	.3	.0	.2	.0	.0	.0	.0	.9	5.5	8.8
NNE	.1	.6	.4	2.4	.1	.8	.1	.7	.0	.1	.0	.0	.0	.0	.8	4.6	10.3
NE	.1	.6	.4	2.3	.1	.4	.1	.5	.0	.2	.0	.0	.0	.0	.7	4.0	9.7
ENE	.1	.5	.4	2.6	.1	.4	.0	.2	.0	.3	.0	.1	.0	.0	.7	4.1	9.8
E	.2	1.2	.6	3.4	.2	1.2	.1	.6	.1	.4	.0	.1	.0	.0	1.1	6.9	10.0
ESE	.3	1.6	.8	4.5	.2	1.3	.1	.6	.0	.3	.0	.1	.0	.0	1.4	8.4	9.2
SE	.3	1.8	.9	5.3	.2	1.2	.1	.7	.1	.4	.0	.0	.0	.0	1.6	9.4	9.0
SSE	.3	1.6	.6	3.5	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	1.0	5.7	7.0
S	.4	2.2	.8	4.7	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	1.2	7.4	6.6
SSW	.2	1.2	.4	2.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.8	6.0
SW	.3	1.6	.4	2.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.9	5.6
WSW	.3	1.5	.4	2.5	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.7	4.5	6.3
W	.3	2.1	.9	5.3	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	1.4	8.4	7.1
WNW	.3	1.8	1.0	5.9	.2	1.0	.0	.2	.1	.3	.0	.0	.0	.0	1.5	9.2	8.2
NW	.2	1.0	.7	3.9	.2	1.2	.1	.7	.0	.2	.0	.0	.0	.0	1.2	7.0	9.5
NNW	.1	.6	.4	2.4	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.6	3.9	8.7
CALM	.6	3.3													.6	3.3	
TOTAL	4.0	24.3	9.4	56.3	1.8	11.1	.9	5.3	.4	2.7	.1	.3	.0	.0	16.6	100	8.0

APN ALPENA, MI

WIND GRAPH

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 3 / DAY

STATION NUMBER: 94849

NO. OBS.: 2415

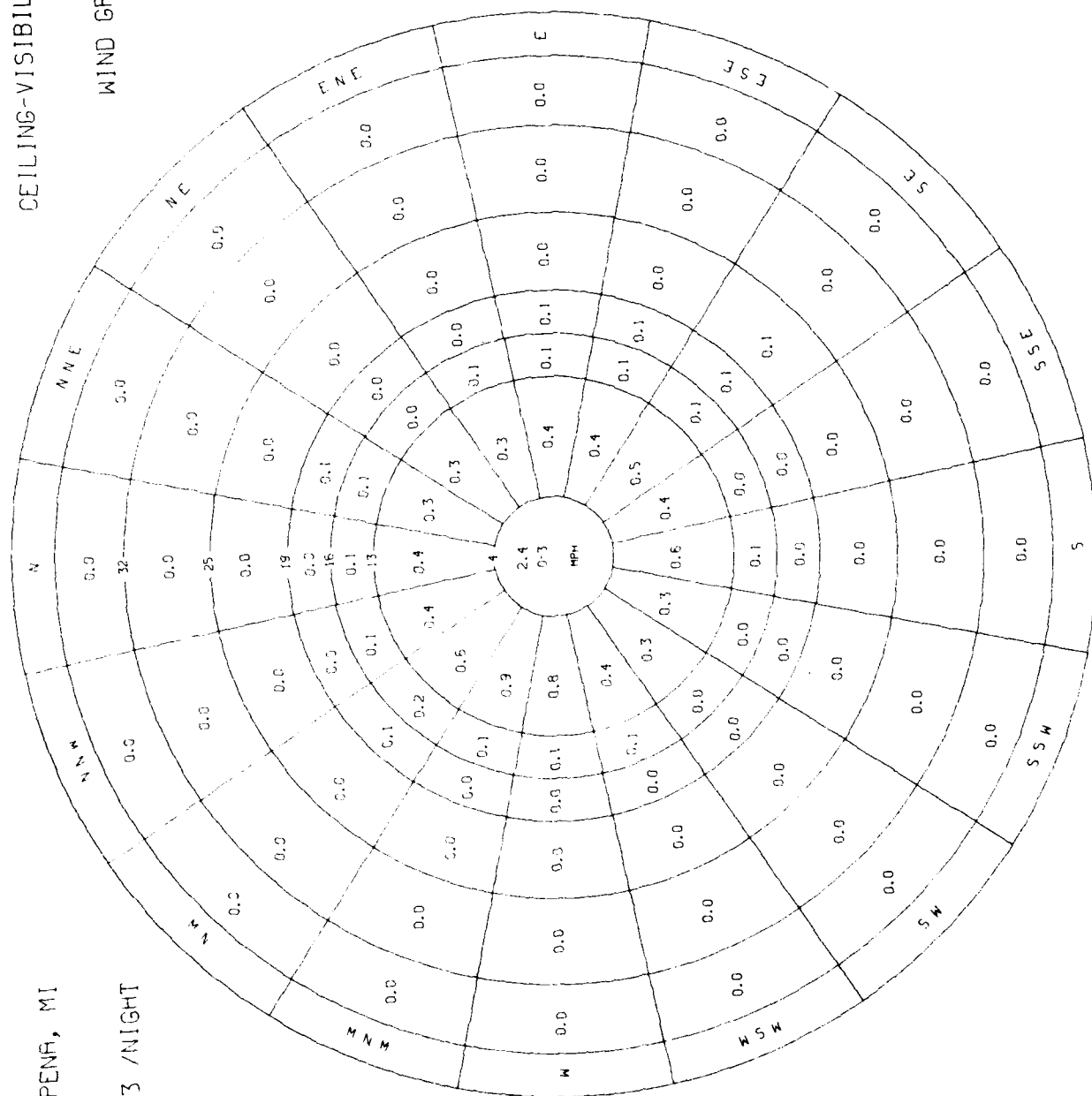
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	1.0	.6	5.3	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.9 8.0
NNE	.0	.4	.4	3.6	.1	1.0	.0	.3	.0	.2	.0	.0	.0	.0	.6 5.5
NE	.0	.4	.5	4.1	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.6 5.3
ENE	.1	.5	.4	3.1	.1	1.2	.0	.4	.0	.2	.0	.1	.0	.0	.6 5.5
E	.1	.5	.5	3.9	.2	1.3	.1	.7	.0	.4	.0	.0	.0	.0	.8 6.7
ESE	.0	.2	.6	4.9	.2	1.8	.1	.7	.0	.1	.0	.0	.0	.0	.9 7.7
SE	.1	.5	.5	4.3	.1	1.1	.1	1.0	.0	.4	.0	.0	.0	.0	.9 7.3
SSE	.1	.8	.4	3.2	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.6 5.1
S	.1	1.2	.5	4.0	.1	.9	.0	.2	.0	.1	.0	.0	.0	.0	.7 6.3
SSW	.1	.9	.3	2.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4 3.8
SW	.1	1.0	.4	3.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5 4.6
WSW	.1	.9	.4	3.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.5 4.5
W	.2	1.4	.6	5.1	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.9 7.7
WNW	.1	.7	.7	5.9	.1	1.2	.0	.4	.0	.2	.0	.0	.0	.0	1.0 8.4
NW	.1	.5	.5	4.4	.1	1.2	.1	.7	.0	.1	.0	.0	.0	.0	.8 7.0
NNW	.1	.5	.4	3.5	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.6 5.1
CALM	.2	1.4													.2 1.4
TOTAL	1.5	12.7	7.6	64.7	1.6	13.7	.7	6.3	.3	2.4	.0	.2	.0	.0	11.7 100
															9.1

CEILING-VISIBILITY

WIND GRAPH

APN ALPENA, MI

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1966-1978

STATION NAME: APN ALPENA, MI

CLASS 3 / NIGHT

NO. OBS.: 2078

STATION NUMBER: 94849

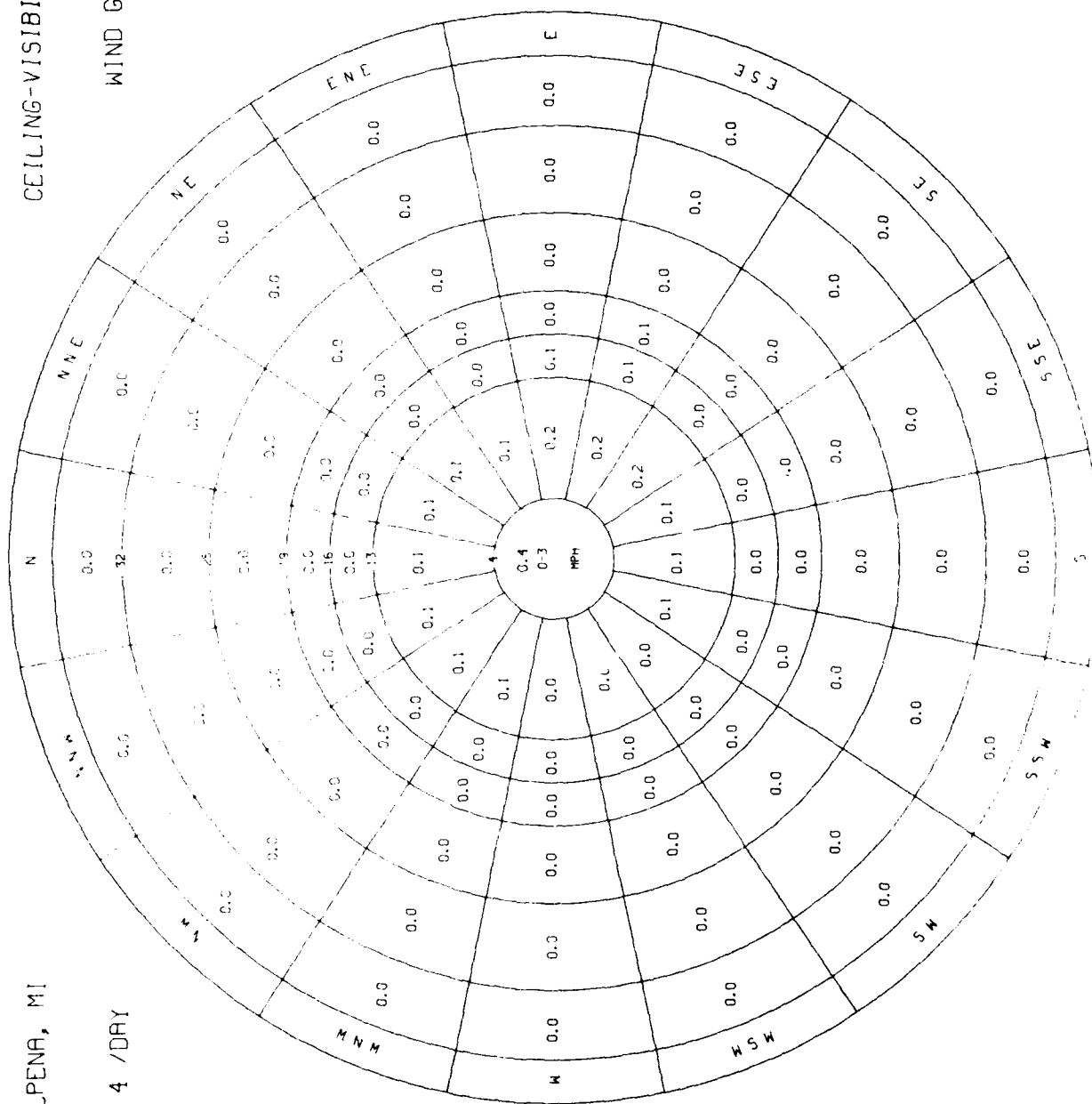
D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
															C	D			
N	.1	1.0	.4	3.5	.1	.9	.0	.2	.0	.2	.0	.0	.0	.0	.7	5.7	8.9		
NNE	.1	.5	.3	2.3	.1	1.0	.1	.7	.0	.1	.0	.0	.0	.0	.6	4.6	10.5		
NE	.1	.6	.3	2.3	.0	.3	.0	.3	.0	.2	.0	.0	.0	.0	.4	3.7	9.2		
ENE	.1	.4	.3	2.1	.1	.4	.0	.1	.0	.2	.0	.1	.0	.0	.4	3.4	9.9		
E	.1	.8	.4	3.0	.1	1.2	.1	.7	.0	.3	.0	.0	.0	.0	.7	5.9	10.4		
ESE	.1	1.2	.4	3.5	.1	1.2	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.6	9.4		
SE	.2	1.4	.5	4.2	.1	1.3	.1	.9	.1	.5	.0	.0	.0	.0	1.0	8.3	9.9		
SSE	.1	1.1	.4	3.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.6	4.9	7.8		
S	.2	1.8	.6	5.4	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.9	7.8	7.2		
SSW	.1	1.2	.3	2.7	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.5	4.1	6.6		
SW	.2	1.4	.3	2.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.2	6.2		
WSW	.2	1.5	.4	3.0	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.2	6.8		
W	.2	1.9	.8	6.5	.1	1.0	.0	.2	.0	.1	.0	.0	.0	.0	1.2	9.8	7.6		
WNW	.2	1.3	.9	7.4	.1	1.3	.0	.2	.0	.3	.0	.0	.0	.0	1.3	10.5	8.5		
NW	.1	.8	.6	4.7	.2	1.5	.1	.8	.0	.0	.0	.0	.0	.0	.9	7.7	9.8		
NNW	.1	.7	.4	3.0	.1	.8	.0	.1	.0	.0	.0	.0	.0	.0	.6	4.6	8.7		
CALM	.3	2.9													.3	2.9			
TOTAL	2.4	20.4	7.1	59.3	1.5	12.5	.7	5.5	.3	2.2	.0	.1	.0	.0	12.0	100	8.4		

CEILING-VISIBILITY

WIND GRAPH

APN ALPENA, MI

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1966-1978

STATION NAME: APN ALPENA, MI

CLASS 4 / DAY

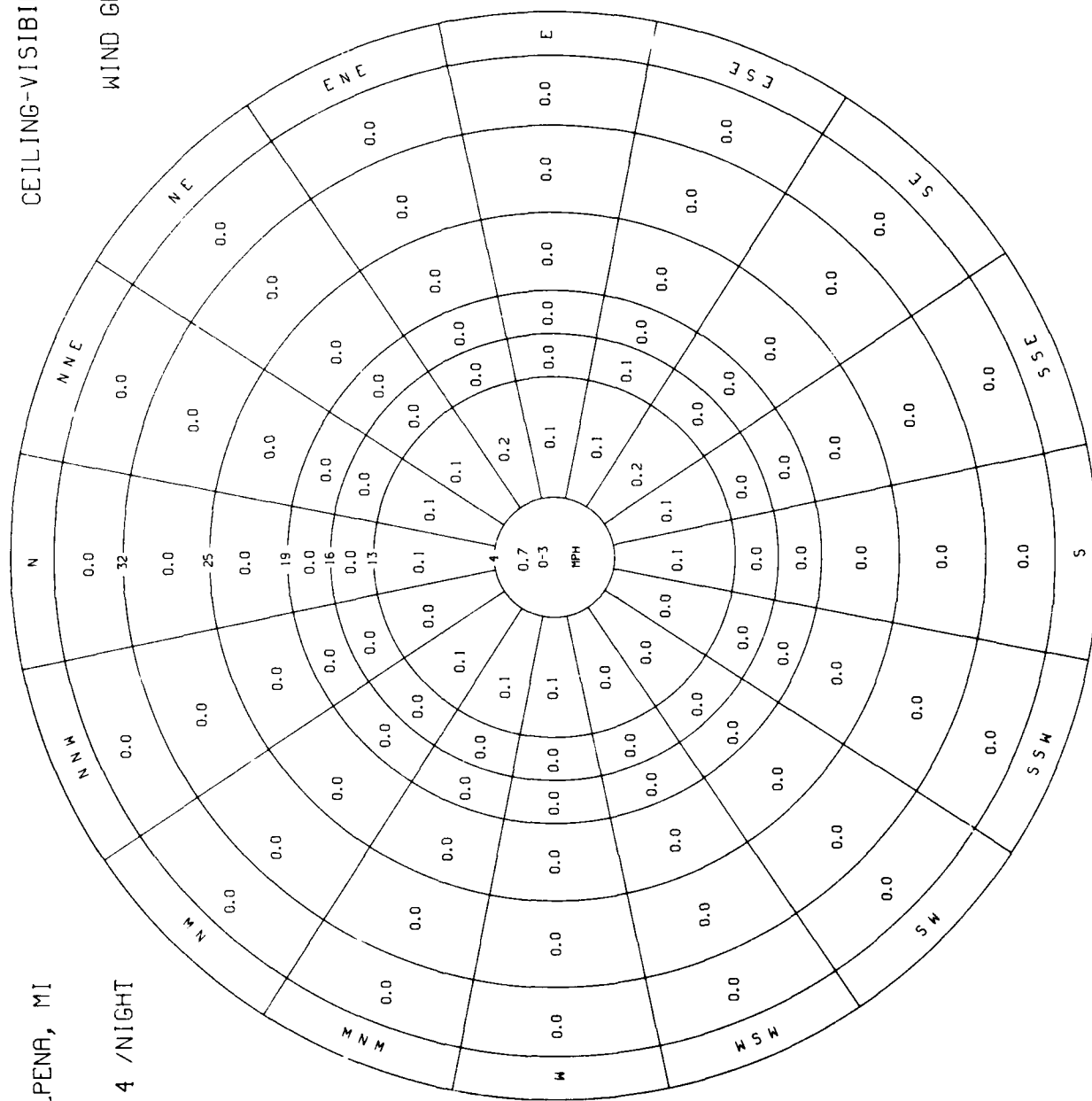
NO. OBS.: 546

STATION NUMBER: 94849

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
N	.0	1.8	.1	3.7	.0	.5	.0	1.1	.0	.2	.0	.0	.0	.0	.2	7.3	8.9
NNE	.0	.7	.1	2.6	.0	.9	.0	.7	.0	.9	.0	.2	.0	.0	.2	6.0	11.7
NNE	.0	.2	.1	3.7	.0	1.5	.0	.4	.0	.5	.0	.0	.0	.0	.2	7.0	10.0
ENE	.0	.3	.1	3.3	.0	.5	.0	.9	.0	.0	.0	.2	.0	.0	.1	5.5	10.3
E	.0	.5	.2	6.8	.1	3.8	.0	1.8	.0	.9	.0	.0	.0	.0	.4	13.9	11.7
ESE	.0	1.8	.2	6.4	.1	2.4	.1	2.2	.0	.5	.0	.0	.0	.0	.4	13.4	10.3
SE	.0	.2	.2	6.4	.0	1.8	.0	.5	.0	.2	.0	.0	.0	.0	.2	9.2	10.5
SSE	.0	1.3	.1	3.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.3	7.0
S	.0	1.1	.1	3.7	.0	.9	.0	.2	.0	.0	.0	.0	.0	.0	.2	5.9	7.2
SSW	.0	.2	.1	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.9	7.0
SW	.0	.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.0	5.5
WSW	.0	1.3	.0	1.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.7	4.8
W	.0	.3	.0	1.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.1	5.8
WNW	.0	.3	.1	2.6	.0	1.6	.0	.5	.0	.0	.0	.0	.0	.0	.2	6.0	9.0
NW	.0	.4	.1	2.4	.1	.4	.0	.7	.0	.3	.0	.0	.0	.0	.1	4.4	11.2
NNW	.0	.4	.1	2.6	.1	.9	.0	.2	.0	.0	.0	.0	.0	.0	.1	4.0	10.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	1.0	.1	3.3	.1	4.1	.1	9.5	.1	3.5	.0	.0	.0	.0	.2	10.0	9.5

WIND GRAPH

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APIA ALPENA, MI

PERIOD: 1966-1978

CLASS 4 / 1.1347

STATION NUMBER: 94849

NO. OBS.: 464

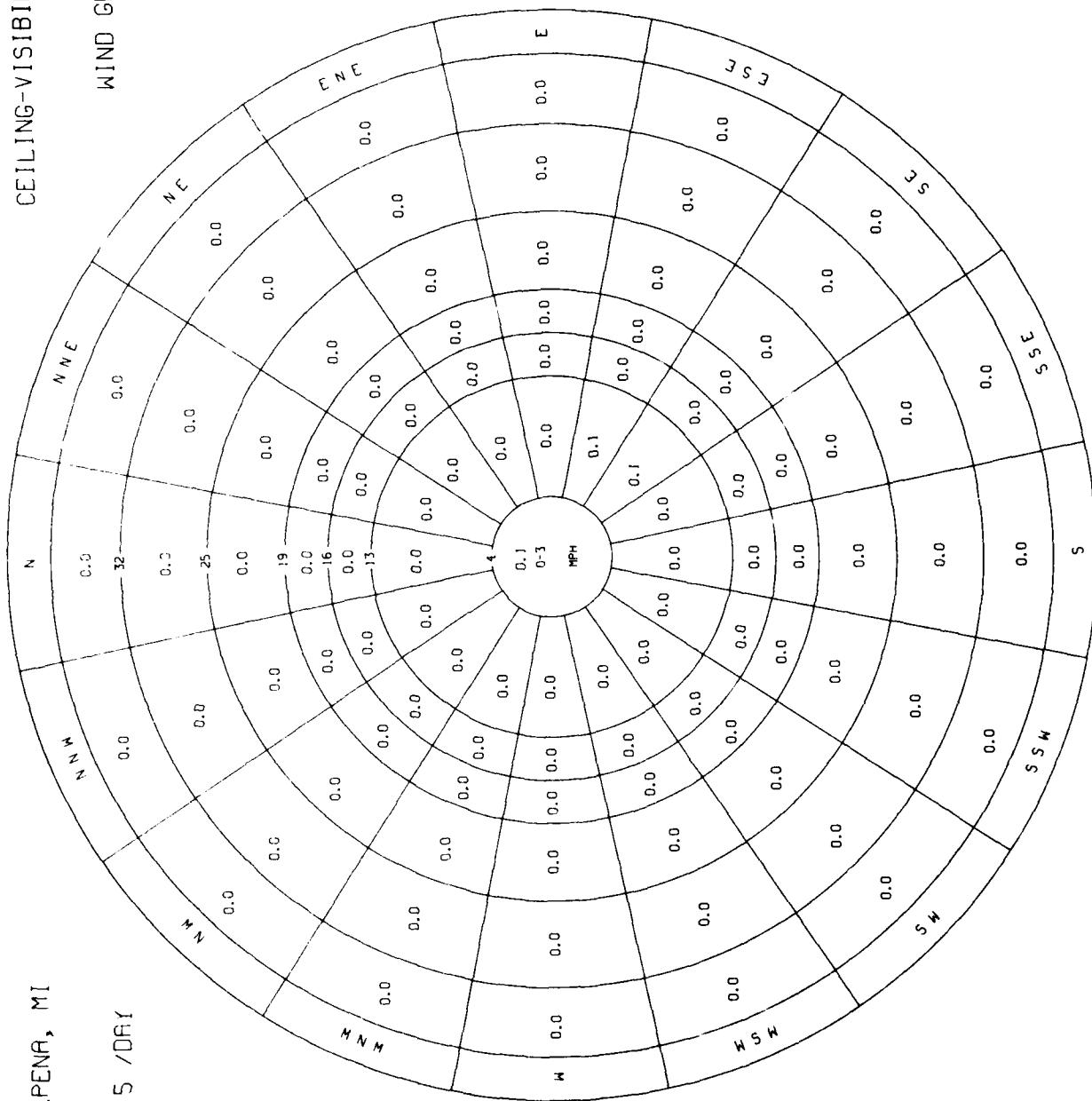
D I R	SPEED GROUPS MPH														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.1	.1	3.4	.0	.9	.0	.6	.0	.0	.0	.0	.0	.0	.2 6.0 8.2
NNE	.0	.4	.1	2.8	.0	.2	.0	.6	.0	.4	.0	.0	.0	.0	.1 4.5 10.0
NNE	.0	.4	.1	2.2	.0	.6	.0	1.3	.0	.8	.0	.0	.0	.0	.2 6.3 11.3
ENE	.0	.6	.2	5.8	.0	.9	.0	.6	.0	.6	.0	.0	.0	.0	.2 8.6 9.9
E	.0	1.3	.1	5.4	.0	1.5	.0	.4	.0	.1	.0	.0	.0	.0	.3 9.9 10.7
ESE	.1	1.9	.1	4.7	.1	2.8	.0	1.3	.0	.4	.0	.0	.0	.0	.3 11.4 10.4
SE	.0	1.1	.2	6.0	.0	1.3	.0	.4	.0	.2	.0	.0	.0	.0	.2 9.1 8.9
SSE	.1	2.2	.1	4.3	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.2 7.5 7.0
S	.1	2.8	.1	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2 6.9 5.1
SSW	.0	1.1	.0	1.7	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1 2.8 4.6
SW	.0	1.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 2.2 4.1
WSW	.0	.4	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.9 5.1
W	.0	1.5	.1	2.6	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.1 4.5 6.3
WNW	.1	1.9	.1	2.6	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.2 5.8 7.5
NW	.0	1.5	.1	2.4	.0	.9	.0	.4	.0	.4	.0	.0	.0	.0	.1 5.6 9.1
NNW	.0	.6	.0	1.3	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.1 2.6 7.0
CALM	.1	4.3													.1 4.3
TOTAL	.7	24.6	1.4	52.8	.3	10.6	.2	6.9	.1	4.7	.0	.4	.0	.0	2.7 100 8.2

CEILING-VISIBILITY

WIND GRAPH

APN ALPENA, MI

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1966-1978

STATION NAME: APN ALPENA, MI

CLASS 5 / DAY

NO. OBS.: 139

STATION NUMBER: 94849

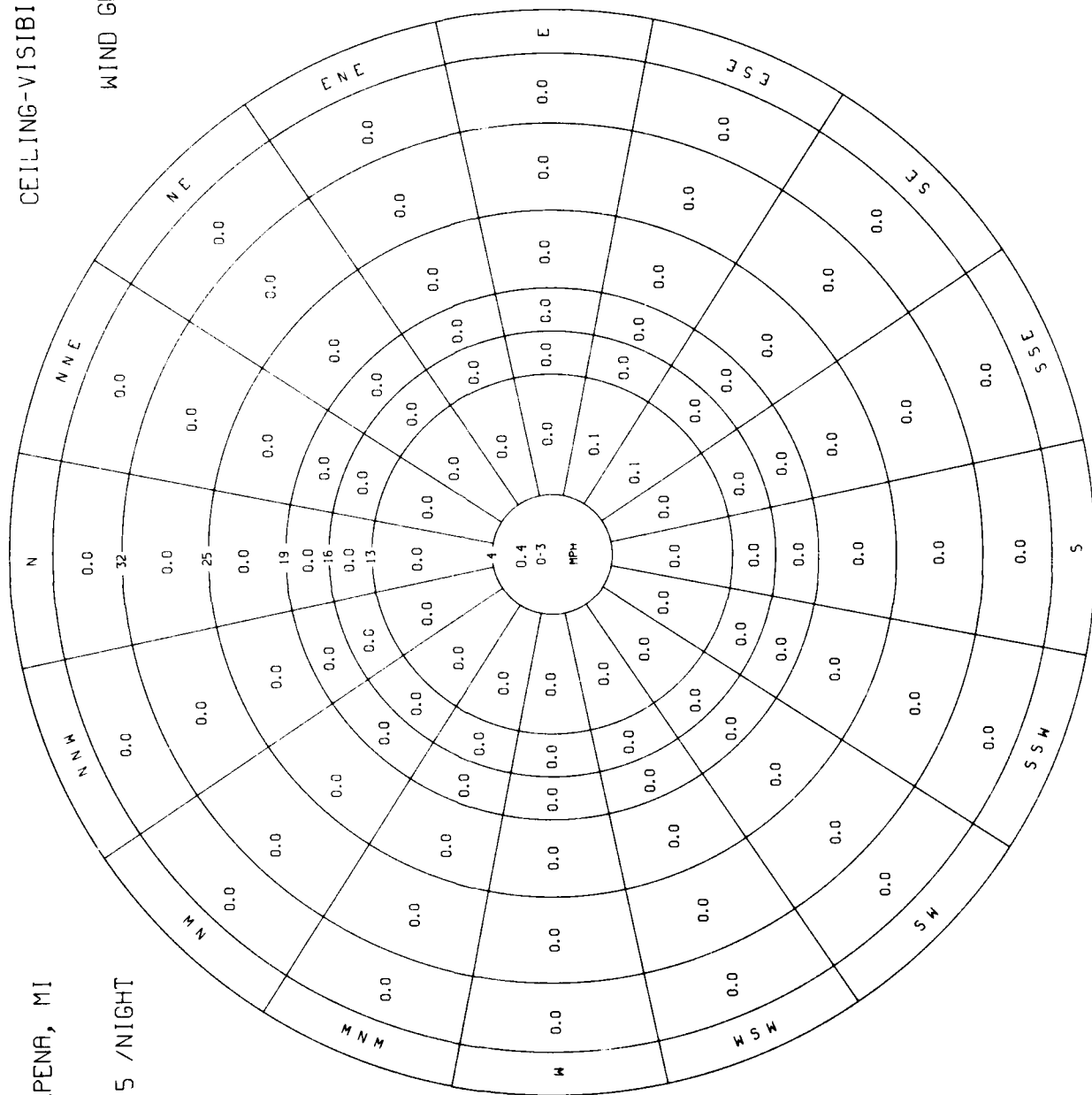
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	2.2	.0	.7	.0	.7	.0	1.4	.0	.0	.0	.0	.0	5.0	14.4
NNE	.0	1.4	.0	1.4	.0	.7	.0	.7	.0	.7	.0	1.4	.0	.0	.0	6.5	14.8
NE	.0	.7	.0	.7	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	.0	3.6	12.0
ENE	.0	.0	.0	6.5	.0	2.2	.0	.7	.0	.7	.0	.0	.0	.0	.1	10.1	9.8
E	.0	.0	.0	7.2	.0	1.4	.0	.7	.0	.7	.0	.7	.0	.0	.1	10.8	11.5
ESE	.0	.7	.1	15.1	.0	2.2	.0	1.4	.0	.0	.0	.0	.0	.0	.1	19.4	9.6
SE	.0	1.4	.1	11.5	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.1	14.4	9.1
SSE	.0	.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	7.2
S	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.5
SSW	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.0
SW	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.0
WSW	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	1.7
W	.0	2.9	.0	1.4	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	6.5	7.6
WNW	.0	2.2	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	3.6	6.2
NW	.0	.7	.0	2.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.6
NNW	.0	.0	.0	1.4	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	2.9	14.8
CALM	.0	3.6													.0	3.6	
TOTAL	.1	19.4	.4	54.7	.1	10.1	.1	8.6	.0	5.0	.0	2.2	.0	.0	.7	100	9.4

CEILING-VISIBILITY

WIND GRAPH

APN ALPENA, MI

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 5 / LIGHT

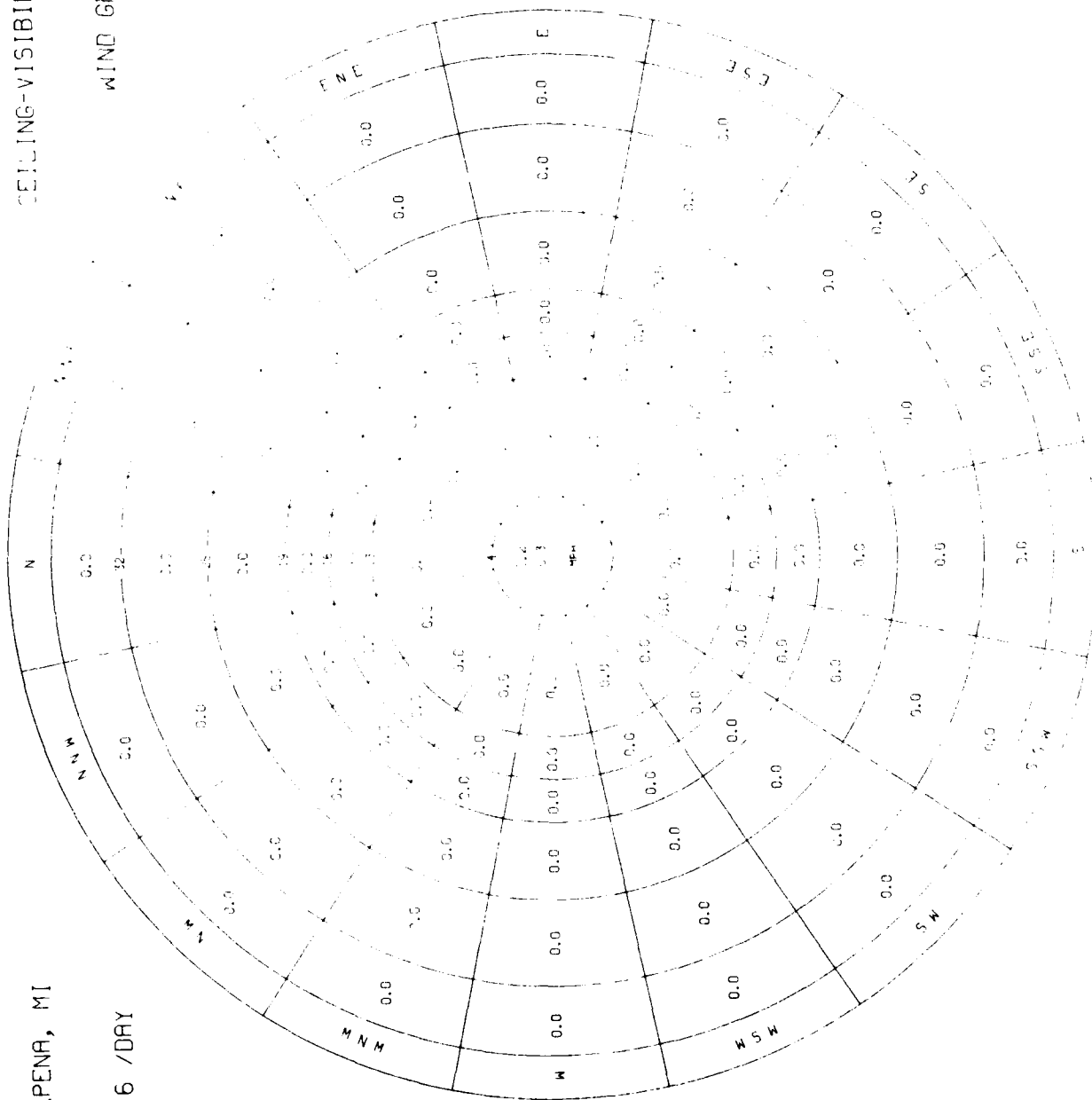
STATION NUMBER: 94849

NO. OBS.: 193

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.1	.0	1.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.1 5.2
NNE	.0	1.0	.0	1.6	.0	.5	.0	.0	.0	.0	.0	.5	.0	.5	.0 4.1
NE	.0	.0	.0	1.6	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0 2.1
ENE	.0	.5	.0	1.6	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0 3.1
E	.1	4.7	.0	2.1	.0	2.6	.0	.5	.0	.5	.0	.0	.0	.0	.1 10.4
ESE	.0	3.6	.1	10.4	.0	.5	.0	.0	.0	1.0	.0	.5	.0	.0	.2 16.1
SE	.0	3.6	.1	11.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.2 16.6
SSE	.0	1.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.7
S	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.1
SSW	.0	.5	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.6
SW	.0	2.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.1
WSW	.0	2.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.6
W	.0	2.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.1
WNW	.0	3.6	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.1 6.2
NW	.0	2.6	.0	2.1	.0	.0	.0	.5	.0	1.6	.0	.0	.0	.0	.1 6.7
NNW	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
CALM	.1	6.2							.1	4.7	.0	1.6	.0	.5	.1 6.2
TOTAL	.4	39.9	.5	45.1	.1	5.2	.0	3.1	.1	4.7	.0	1.6	.0	.5	1.1 100
															6.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 6 / DAY

STATION NUMBER: 94849

NO. OBS.: 116

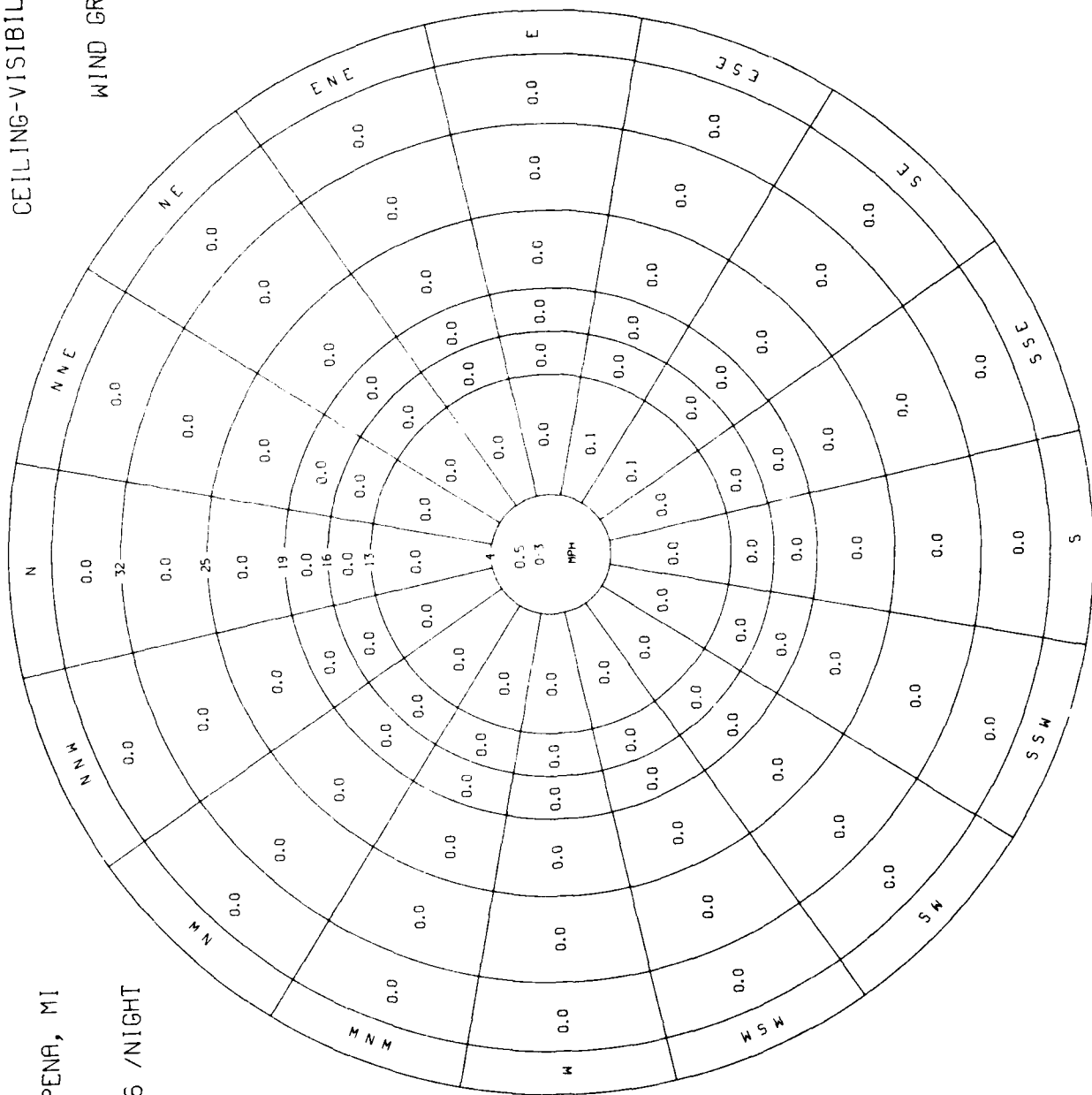
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.9	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	.0	2.6	18.3
NNE	.0	2.6	.0	1.7	.0	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	6.0	8.3
NE	.0	.0	.0	1.7	.0	.9	.0	.9	.0	1.7	.0	1.7	.0	.0	.0	6.9	18.2
ENE	.0	.9	.0	.0	.0	.9	.0	.9	.0	.0	.0	.9	.0	.0	.0	3.4	14.5
E	.0	2.6	.0	3.4	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	6.9	6.4
ESE	.0	1.7	.1	13.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	17.2	7.9
SE	.0	1.7	.0	7.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.3	7.6
SSE	.0	5.2	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.5	4.3
S	.0	4.3	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	5.2
SSW	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	6.5
SW	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.2
WSW	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	3.5
W	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	1.7
WNW	.0	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	1.7	13.5
NW	.0	.9	.0	.0	.0	.9	.0	.0	.0	2.6	.0	.0	.0	.0	.0	4.3	17.2
NNW	.0	.9	.0	2.6	.0	.0	.0	.0	.0	1.7	.0	.9	.0	.0	.0	6.0	14.0
CALM	.0	6.0													.0	6.0	
TOTAL	2	34.5	.2	43.1	.0	6.0	.0	4.3	.0	6.9	.0	4.3	.0	.9	.6	100	8.4

CEILING-VISIBILITY

WIND GRAPH

APN ALPENA, MI

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 6 / NIGHT

STATION NUMBER: 94849

NO. OBS.: 158

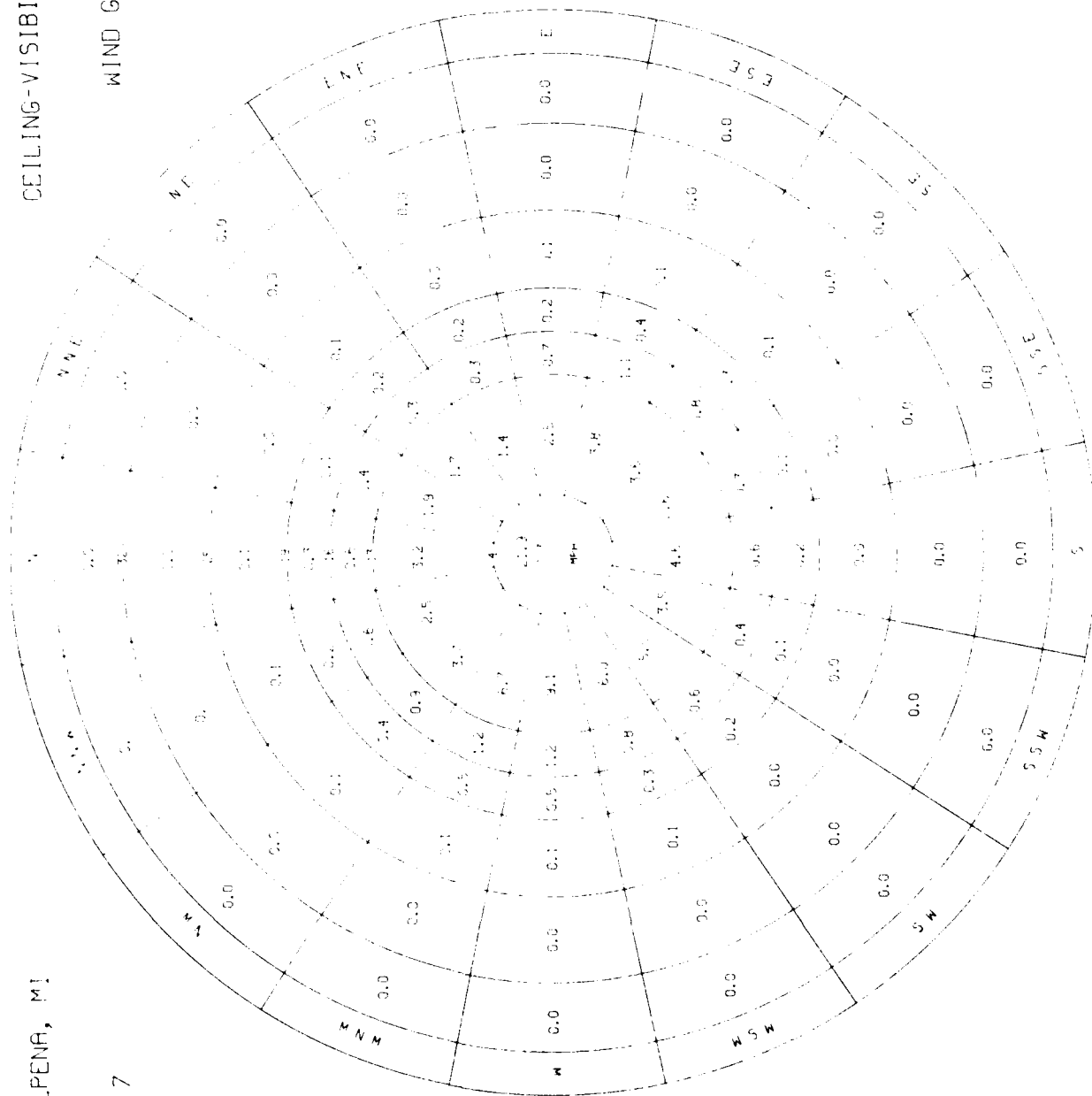
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
																C	O
N	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.9	9.3	
NNE	.0	1.3	.0	2.5	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	4.4	7.0	
NE	.0	1.3	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.8	
ENE	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.0	
E	.0	1.9	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	5.3	
ESE	.0	3.8	.1	10.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	14.6	6.2	
SE	.1	6.3	.1	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.8	5.2	
SSE	.1	7.6	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.7	3.8	
S	.0	5.1	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	2.8	
SSW	.0	3.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	2.1	
SW	.0	4.4	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	3.2	
WSW	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	1.7	
W	.0	5.1	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	2.9	
WNW	.0	5.1	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	6.3	4.4	
NW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	3.8	
NNW	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.3	15.0	
CALM	.0	2.5												.0	2.5		
TOTAL	.5	56.3	.4	39.9	.0	1.3	.0	.6	.0	1.3	.0	.6	.0	.0	9 100	4.6	

CEILING-VISIBILITY

WIND GRAPH

APN ALPENA, MI

CLASS 7

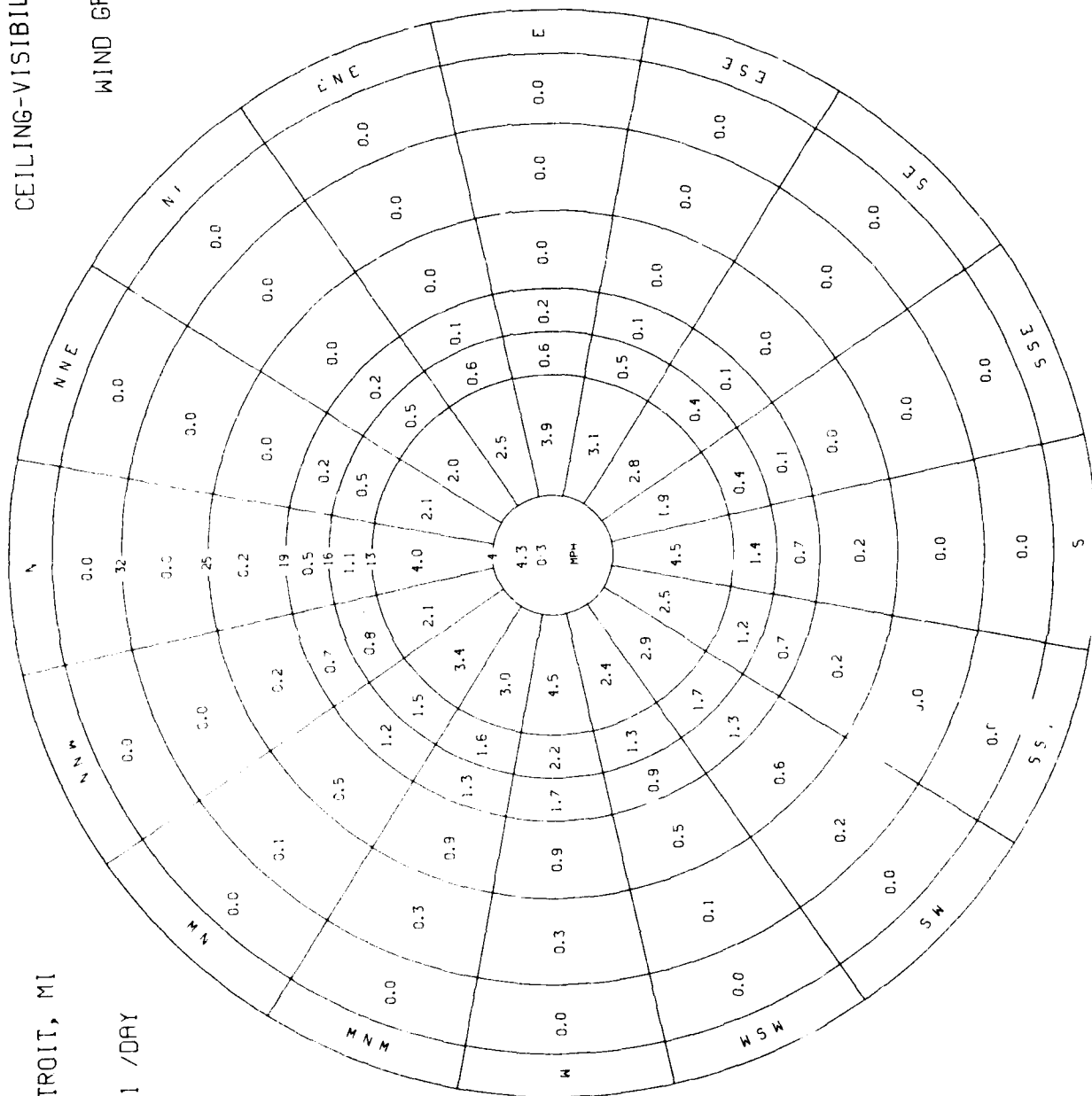


CEILING-VISIBILITY

WIND GRAPH

DET DETROIT, MI

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 1 / DAY

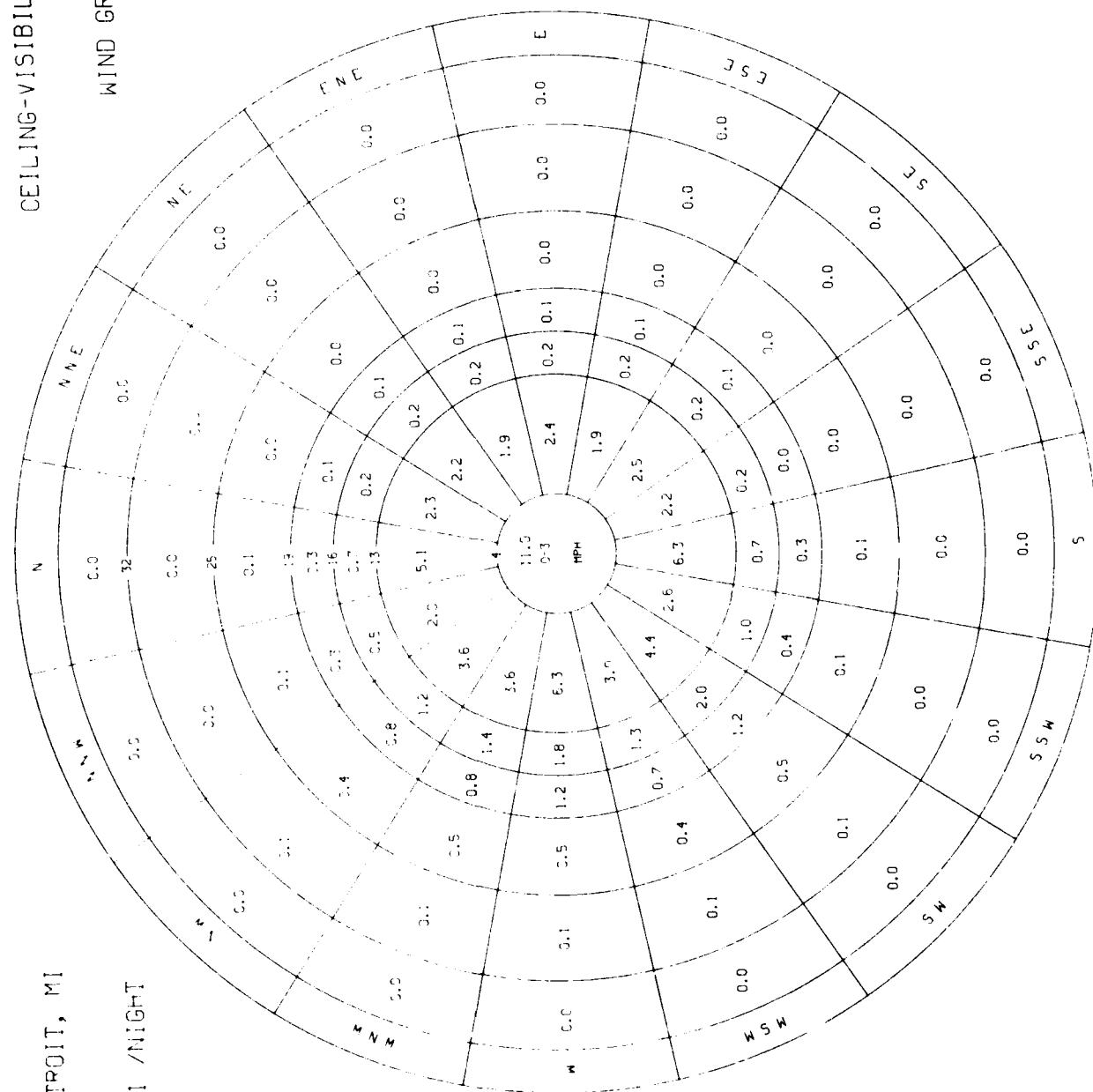
STATION NUMBER: 14822

NO. OBS.: 41167

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.5	.6	4.0	4.7	1.1	1.3	.5	.7	.2	.2	.0	.0	.0	.0	6.4	7.6	10.2
NNE	.2	.3	2.1	2.5	.5	.6	.2	.2	.0	.1	.0	.0	.0	.0	3.0	3.6	9.6
NE	.3	.3	2.0	2.4	.5	.6	.2	.2	.0	.0	.0	.0	.0	.0	2.9	3.5	9.5
ENE	.1	.2	2.5	2.9	.6	.7	.1	.2	.0	.0	.0	.0	.0	.0	3.4	4.0	9.8
E	.4	.5	3.9	4.7	.6	.7	.2	.2	.0	.0	.0	.0	.0	.0	5.1	6.1	9.1
ESE	.2	.2	3.1	3.8	.5	.6	.1	.1	.0	.0	.0	.0	.0	.0	3.9	4.7	9.2
SE	.3	.3	2.8	3.3	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	3.5	4.2	8.6
SSE	.1	.1	1.9	2.3	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	2.5	3.0	9.8
S	.2	.3	4.5	5.4	1.4	1.7	.7	.8	.2	.2	.0	.0	.0	.0	7.0	8.4	10.9
SSW	.1	.1	2.5	3.0	1.2	1.5	.7	.8	.2	.3	.0	.0	.0	.0	4.8	5.7	12.4
SW	.1	.1	2.9	3.5	1.7	2.0	1.3	1.6	.6	.8	.2	.2	.0	.1	6.9	8.3	13.6
WSW	.1	.1	2.4	2.9	1.3	1.6	.9	1.0	.5	.6	.1	.1	.0	.0	5.4	6.4	13.3
W	.2	.3	4.5	5.4	2.2	2.6	1.7	2.0	.9	1.1	.3	.3	.0	.1	9.8	11.7	13.2
WNW	.2	.2	3.0	3.5	1.6	1.9	1.3	1.6	.9	1.0	.3	.3	.0	.0	7.2	8.5	13.7
NW	.3	.3	3.4	4.0	1.5	1.8	1.2	1.4	.5	.7	.1	.1	.0	.0	7.0	8.4	12.4
NNW	.2	.2	2.1	2.5	.8	1.0	.7	.8	.2	.3	.0	.0	.0	.0	4.1	4.9	11.7
CALM	.9	1.0												.9	1.0		
TOTAL	4.3	5.1	47.7	56.9	16.3	19.4	9.9	11.9	4.5	5.3	1.0	1.2	.1	.2	83.8	100	11.4

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14822

NO. OBS.: 35216

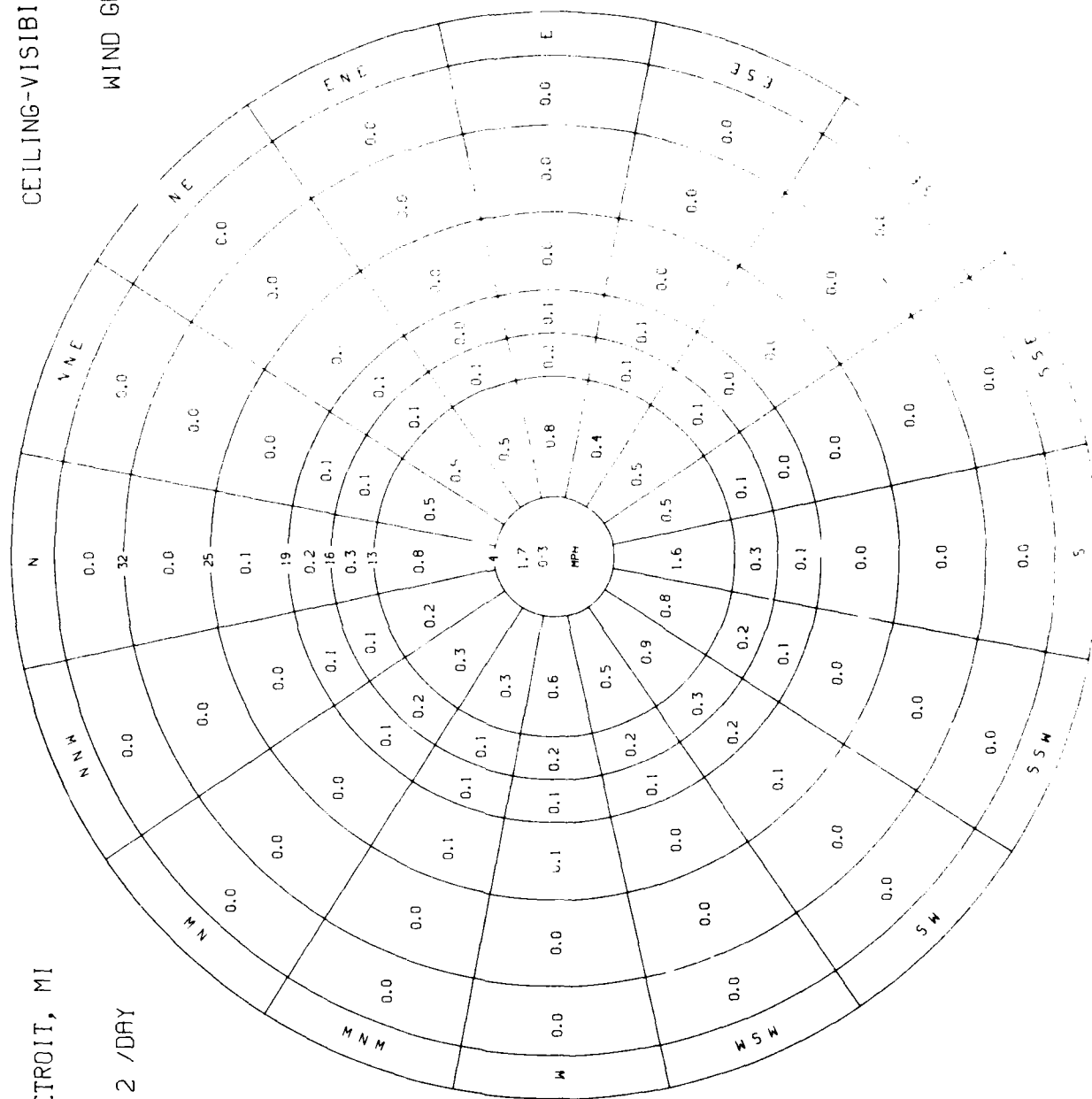
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	1.4	1.7	5.1	6.0	.7	.8	.3	.3	.1	.1	.0	.0	.0	.0	7.5	8.8	7.8
NNE	.5	.6	2.3	2.7	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.7	7.6
NE	.7	.8	2.2	2.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.7	7.3
ENE	.3	.4	1.9	2.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.5	2.9	8.0
E	.9	1.0	2.4	2.9	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.6	4.2	7.0
ESE	.3	.3	1.9	2.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.8	8.1
SE	.6	.7	2.5	3.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.4	4.0	7.4
SSE	.3	.3	2.2	2.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.2	7.6
S	.8	.9	6.3	7.4	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	8.2	9.7	8.4
SSW	.2	.2	2.6	3.1	1.0	1.1	.4	.5	.1	.2	.0	.0	.0	.0	4.3	5.1	10.8
SW	.3	.4	4.4	5.2	2.0	2.4	1.2	1.4	.5	.5	.1	.1	.0	.0	8.6	10.1	12.0
WSW	.2	.2	3.0	3.5	1.3	1.6	.7	.8	.4	.4	.1	.1	.0	.0	5.7	6.7	12.2
W	.5	.5	6.3	7.4	1.8	2.1	1.2	1.4	.5	.6	.1	.2	.0	.0	10.4	12.2	11.2
WNW	.3	.3	3.6	4.3	1.4	1.6	.8	1.0	.5	.6	.1	.1	.0	.0	6.7	7.9	11.8
NW	.6	.7	3.6	4.2	1.2	1.4	.8	.9	.4	.5	.1	.1	.0	.0	6.5	7.7	10.9
NNW	.3	.4	2.0	2.3	.5	.6	.3	.4	.1	.2	.0	.0	.0	.0	3.3	3.9	10.1
CALM	2.9	3.4													2.9	3.4	
TOTAL	11.0	12.9	52.4	61.6	11.8	13.9	6.5	7.6	2.7	3.2	.5	.6	.1	.1	85.0	100	9.4

CEILING-VISIBILITY

WIND GRAPH

DET DETROIT, MI

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 2 / DAY

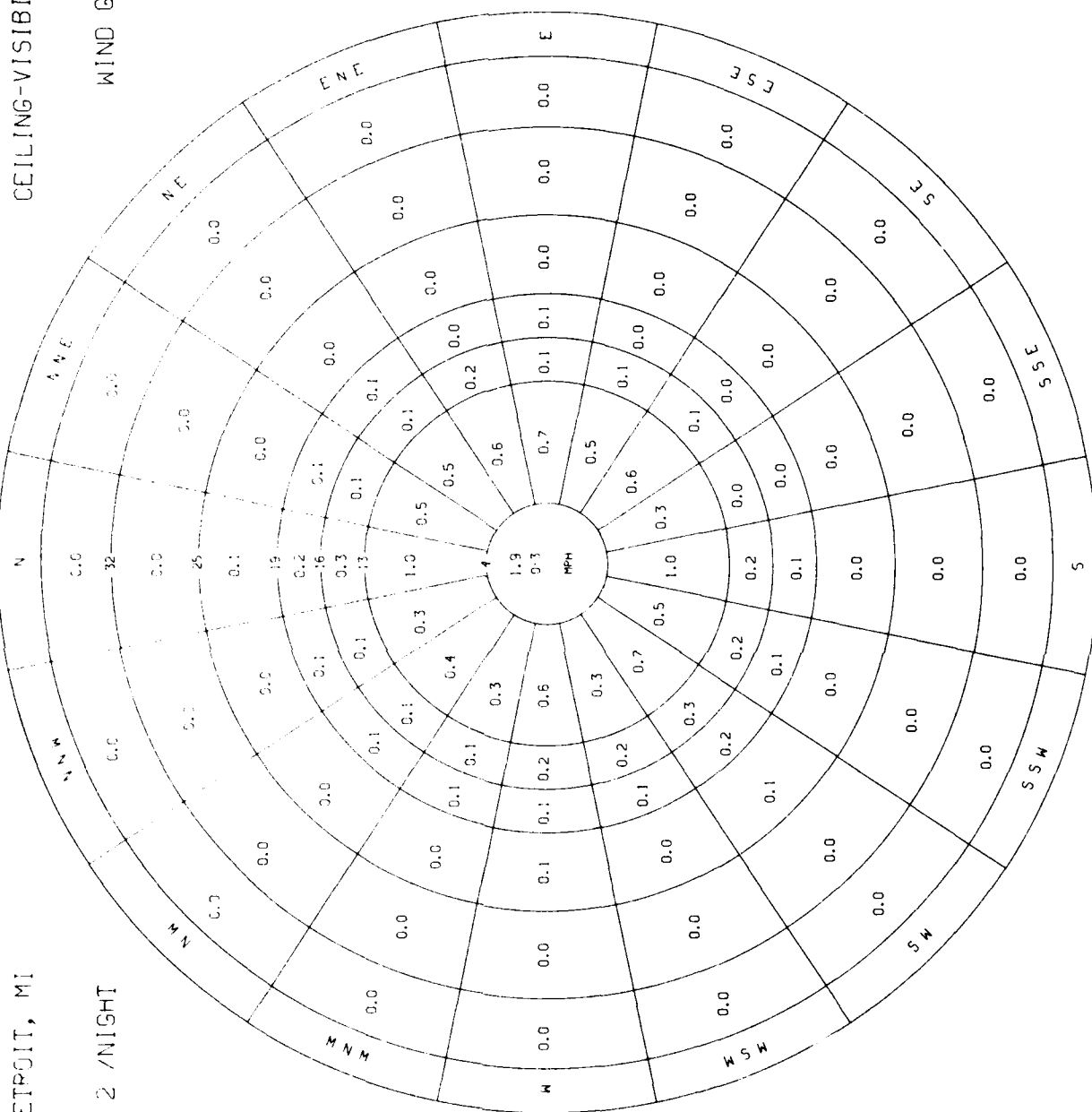
STATION NUMBER: 14822

NJ. OBS.: 7950

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.8	.8	4.7	.3	1.5	.2	1.1	.1	.5	.0	.1	.0	.0	1.4 8.7
NNE	.1	.5	.5	3.1	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.8 4.7
NE	.1	.6	.5	3.2	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.8 4.9
ENE	.1	.4	.5	2.8	.1	.9	.0	.3	.0	.1	.0	.0	.0	.0	.7 4.4
E	.1	.8	.8	4.8	.2	1.2	.1	.7	.0	.1	.0	.0	.0	.0	1.2 7.6
ESE	.1	.5	.4	2.7	.1	.8	.1	.3	.0	.1	.0	.0	.0	.0	.7 4.5
SE	.1	.7	.5	3.2	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.7 4.6
SSE	.0	.2	.5	2.9	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.6 3.8
S	.2	1.1	1.6	9.7	.3	1.6	.1	.6	.0	.2	.0	.0	.0	.0	2.2 13.3
SSW	.0	.2	.8	4.8	.2	1.2	.1	.6	.0	.2	.0	.0	.0	.0	1.1 7.0
SW	.1	.5	.9	5.7	.3	2.1	.2	1.2	.1	.5	.0	.1	.0	.0	1.6 10.0
WSW	.0	.2	.5	2.9	.2	1.1	.1	.8	.0	.2	.0	.1	.0	.0	.9 5.4
W	.1	.6	.6	3.7	.2	1.2	.1	.8	.1	.4	.0	.1	.0	.0	1.1 6.8
WNW	.0	.2	.3	1.9	.1	.9	.1	.4	.1	.4	.0	.1	.0	.0	.6 4.0
NW	.1	.4	.3	2.2	.2	1.1	.1	.5	.0	.2	.0	.1	.0	.0	.7 4.5
NNW	.0	.3	.2	1.5	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.6 3.5
CALM	.4	2.3													.4 2.3
TOTAL	1.7	10.3	9.7	60.0	2.7	16.5	1.5	9.2	.5	3.4	.1	.6	.0	.1	16.2 100
															10.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 2 / NIGHT

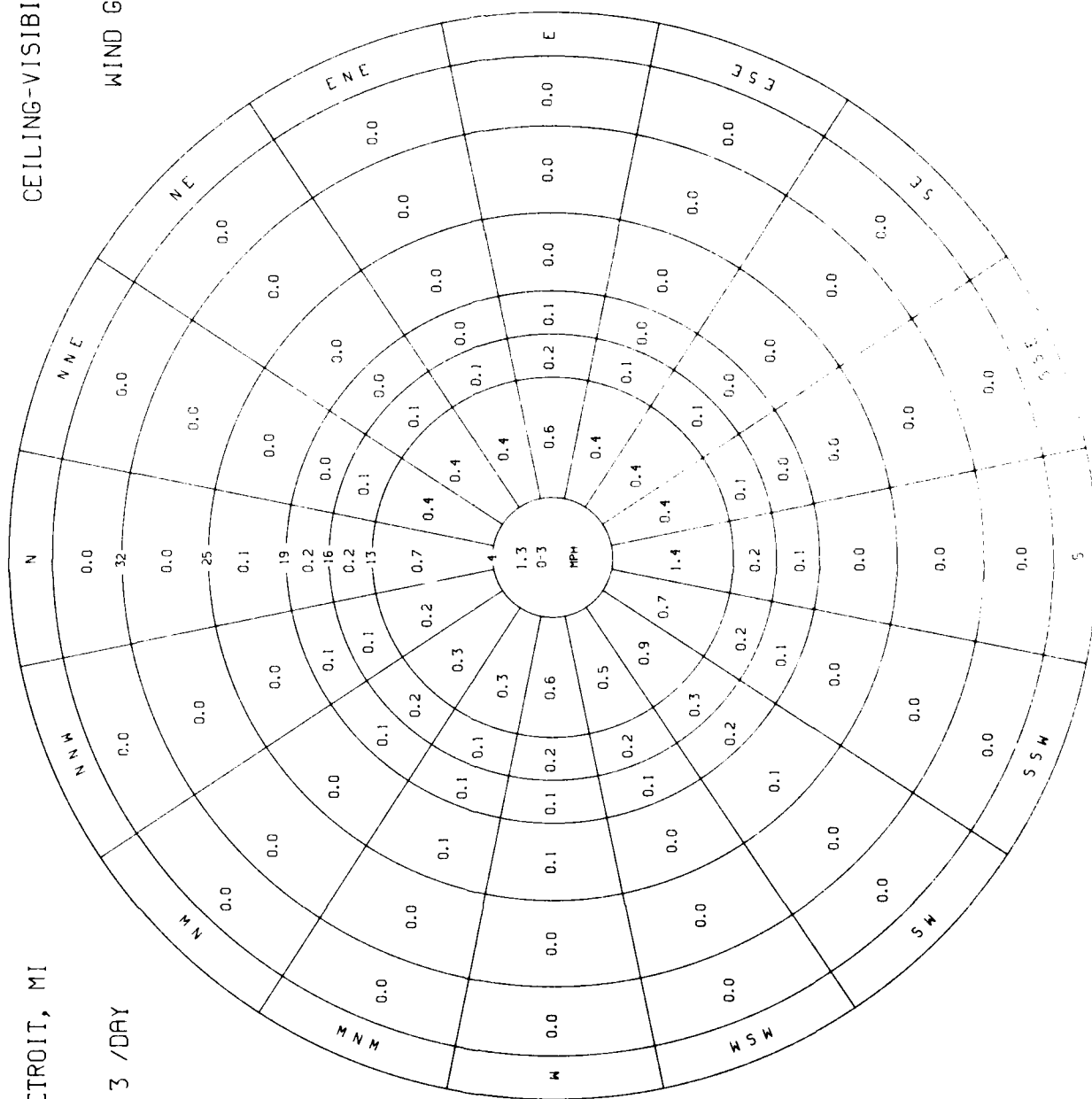
STATION NUMBER: 14822

NO. OBS.: 6230

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	1.4	1.0	6.5	.3	1.9	.2	1.1	.1	.4	.0	.0	.0	.0	1.7 11.3
NNE	.1	.4	.5	3.6	.1	.8	.1	.7	.0	.1	.0	.0	.0	.0	.8 5.6
NE	.1	.8	.5	3.1	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.8 5.3
ENE	.1	.5	.6	3.7	.2	1.1	.0	.3	.0	.1	.0	.0	.0	.0	.9 5.7
E	.2	1.1	.7	5.0	.1	.9	.1	.7	.0	.0	.0	.0	.0	.0	1.1 7.6
ESE	.0	.3	.5	3.5	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.7 4.8
SE	.1	.8	.6	3.7	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.8 5.3
SSE	.0	.3	.3	2.3	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5 3.0
S	.2	1.5	1.0	6.8	.2	1.1	.1	.5	.0	.2	.0	.0	.0	.0	1.5 10.1
SSW	.0	.2	.5	3.3	.2	1.2	.1	.7	.0	.2	.0	.0	.0	.0	.8 5.5
SW	.1	.8	.7	4.6	.3	2.1	.2	1.3	.1	.4	.0	.1	.0	.0	1.4 9.2
WSW	.0	.2	.3	2.2	.2	1.3	.1	.5	.0	.2	.0	.0	.0	.0	.7 4.5
W	.1	.6	.6	4.0	.2	1.2	.1	.6	.1	.4	.0	.1	.0	.0	1.0 6.9
WNW	.0	.2	.3	2.3	.1	.7	.1	.6	.0	.2	.0	.0	.0	.0	.6 4.0
NW	.1	.7	.4	2.4	.1	.9	.1	.6	.0	.2	.0	.1	.0	.0	.7 5.0
NNW	.0	.3	.3	1.8	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.5 3.4
CALM	.4	2.6													.4 2.6
TOTAL	1.9	12.8	8.8	58.8	2.4	16.1	1.4	9.1	.4	2.7	.1	.4	.0	.0	15.0 100
															9.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

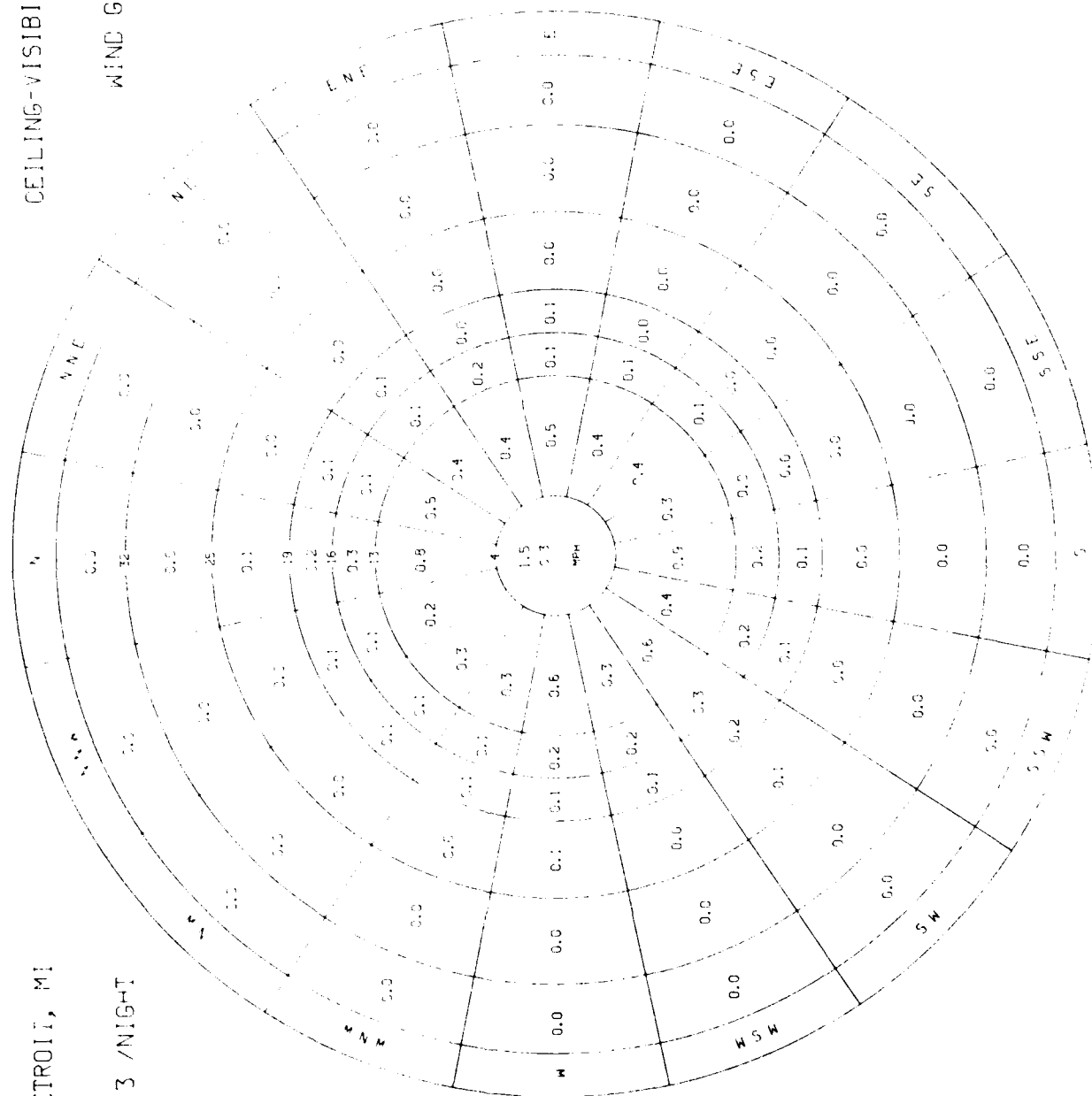
CLASS 3 / DAY

STATION NUMBER: 14822

NO. OBS.: 6993

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.7	.7	4.6	.2	1.7	.2	1.1	.1	.5	.0	.1	.0	.0	1.2 8.7
NNE	.1	.5	.4	3.0	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.6 4.4
NE	.1	.4	.4	2.9	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.6 4.5
ENE	.0	.3	.4	2.5	.1	.9	.0	.3	.0	.0	.0	.0	.0	.0	.6 4.1
E	.1	.7	.6	4.2	.2	1.1	.1	.7	.0	.1	.0	.0	.0	.0	1.0 6.8
ESE	.1	.4	.4	2.6	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.6 4.1
SE	.1	.6	.4	3.0	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.6 4.3
SSE	.0	.2	.4	2.9	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5 3.8
S	.2	1.1	1.4	9.6	.2	1.7	.1	.7	.0	.2	.0	.0	.0	.0	1.9 13.4
SSW	.0	.2	.7	5.0	.2	1.3	.1	.7	.0	.2	.0	.0	.0	.0	1.0 7.3
SW	.1	.4	.9	6.1	.3	2.4	.2	1.3	.1	.5	.0	.1	.0	.0	1.5 10.8
WSW	.0	.2	.5	3.2	.2	1.3	.1	.9	.0	.3	.0	.1	.0	.0	.8 5.9
W	.1	.5	.6	3.9	.2	1.3	.1	.8	.1	.4	.0	.1	.0	.0	1.0 7.2
WNW	.0	.2	.3	2.1	.1	1.0	.1	.5	.1	.4	.0	.1	.0	.0	.6 4.2
NW	.1	.4	.3	2.3	.2	1.1	.1	.6	.0	.2	.0	.1	.0	.0	.7 4.7
NNW	.0	.3	.2	1.7	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.5 3.7
CALM	.3	2.1													.3 2.1
TOTAL	1.3	9.2	8.5	59.7	2.5	17.4	1.4	9.6	.5	3.4	.1	.6	.0	.1	14.2 100
															10.3

DET DETROIT, MI
 CLASS 3 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

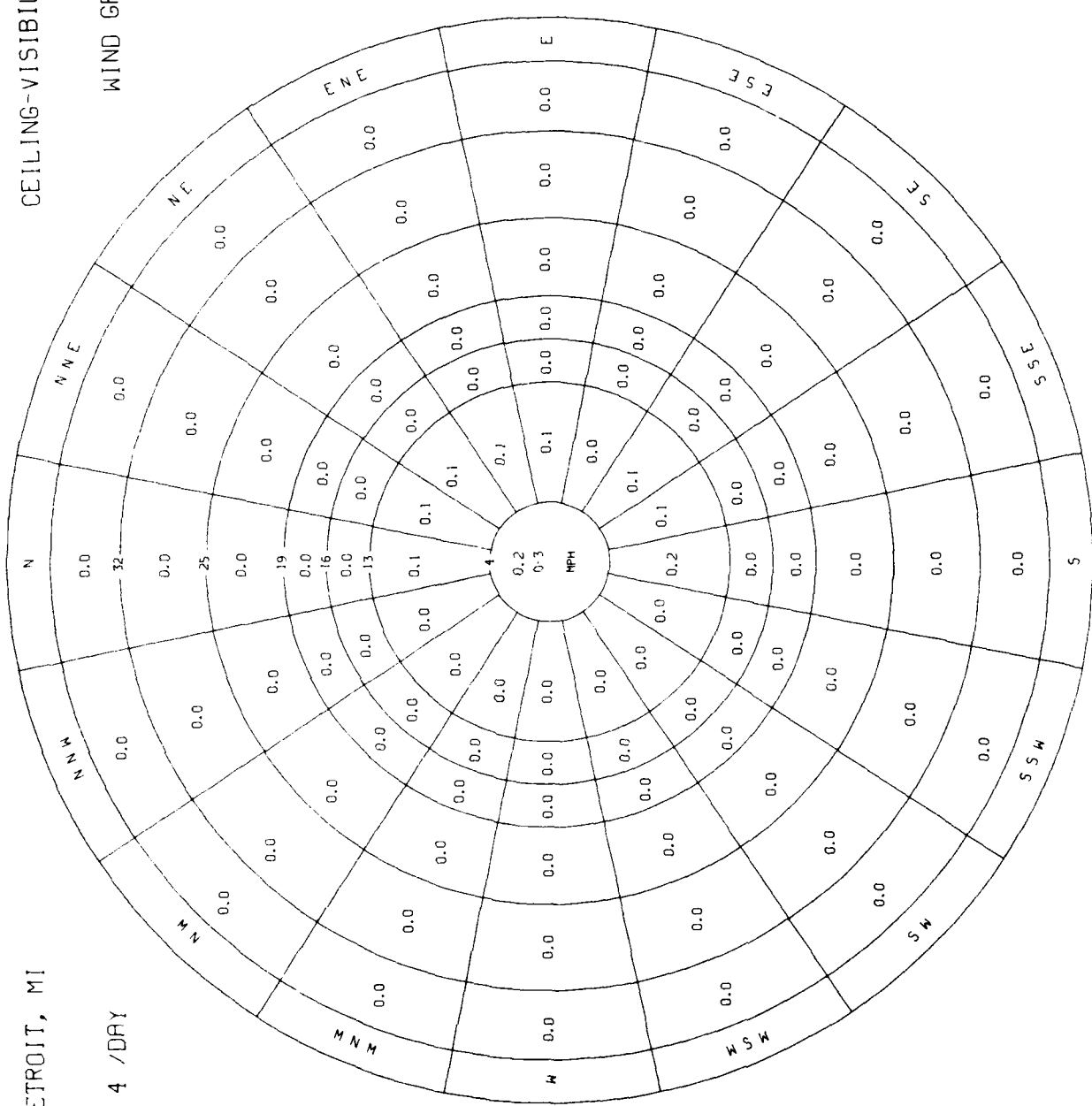
CLASS 3 / NIGHT

STATION NUMBER: 14822

NO. OBS.: 5355

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	1.3	.8	6.5	.3	2.1	.2	1.3	.1	.5	.0	.0	.0	.0	1.5	11.7	10.2
NNE	.0	.3	.5	3.6	.1	.7	.1	.6	.0	.1	.0	.0	.0	.0	.7	5.4	9.9
NNE	.1	.8	.4	3.0	.1	.9	.1	.6	.0	.1	.0	.0	.0	.0	.7	5.2	9.6
ENE	.1	.5	.4	3.4	.2	1.3	.0	.3	.0	.1	.0	.0	.0	.0	.7	5.5	9.9
E	.1	.9	.5	4.1	.1	.8	.1	.7	.0	.0	.0	.0	.0	.0	.9	6.6	9.4
ESE	.0	.2	.4	2.7	.1	.7	.0	.3	.0	.0	.0	.0	.0	.0	.5	3.9	9.6
SE	.1	.8	.4	3.3	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.6	4.9	8.2
SSE	.0	.3	.3	2.0	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.7	8.3
S	.2	1.5	.7	6.7	.2	1.2	.1	.5	.0	.2	.0	.0	.0	.0	1.3	10.1	8.7
SSW	.0	.2	.4	3.2	.2	1.3	.1	.7	.0	.2	.0	.0	.0	.0	.7	5.7	11.2
SW	.1	.8	.6	4.9	.3	2.3	.2	1.5	.1	.4	.0	.1	.0	.0	1.3	10.1	11.4
WSW	.0	.2	.3	2.5	.2	1.5	.1	.6	.0	.3	.0	.0	.0	.0	.7	5.1	11.7
W	.1	.6	.6	4.4	.2	1.4	.1	.7	.1	.4	.0	.1	.0	.0	1.0	7.6	11.0
WNW	.0	.2	.3	2.4	.1	.8	.1	.7	.0	.2	.0	.1	.0	.0	.6	4.4	11.8
NW	.1	.7	.3	2.5	.1	1.0	.1	.7	.0	.2	.0	.1	.0	.0	.7	5.2	10.8
NNW	.0	.3	.2	1.8	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.5	3.5	11.0
CALM	.3	2.2													.3	2.2	
TOTAL	1.5	11.9	7.4	57.2	2.3	17.5	1.3	9.9	.4	3.1	.1	.4	.0	.0	12.9	100	10.0

CEILING-VISIBILITY
WIND GRAPH



DET DETROIT, MI
CLASS 4 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DET DETROIT, MI

CLASS 4 / DAY

NO. OBS.: 719

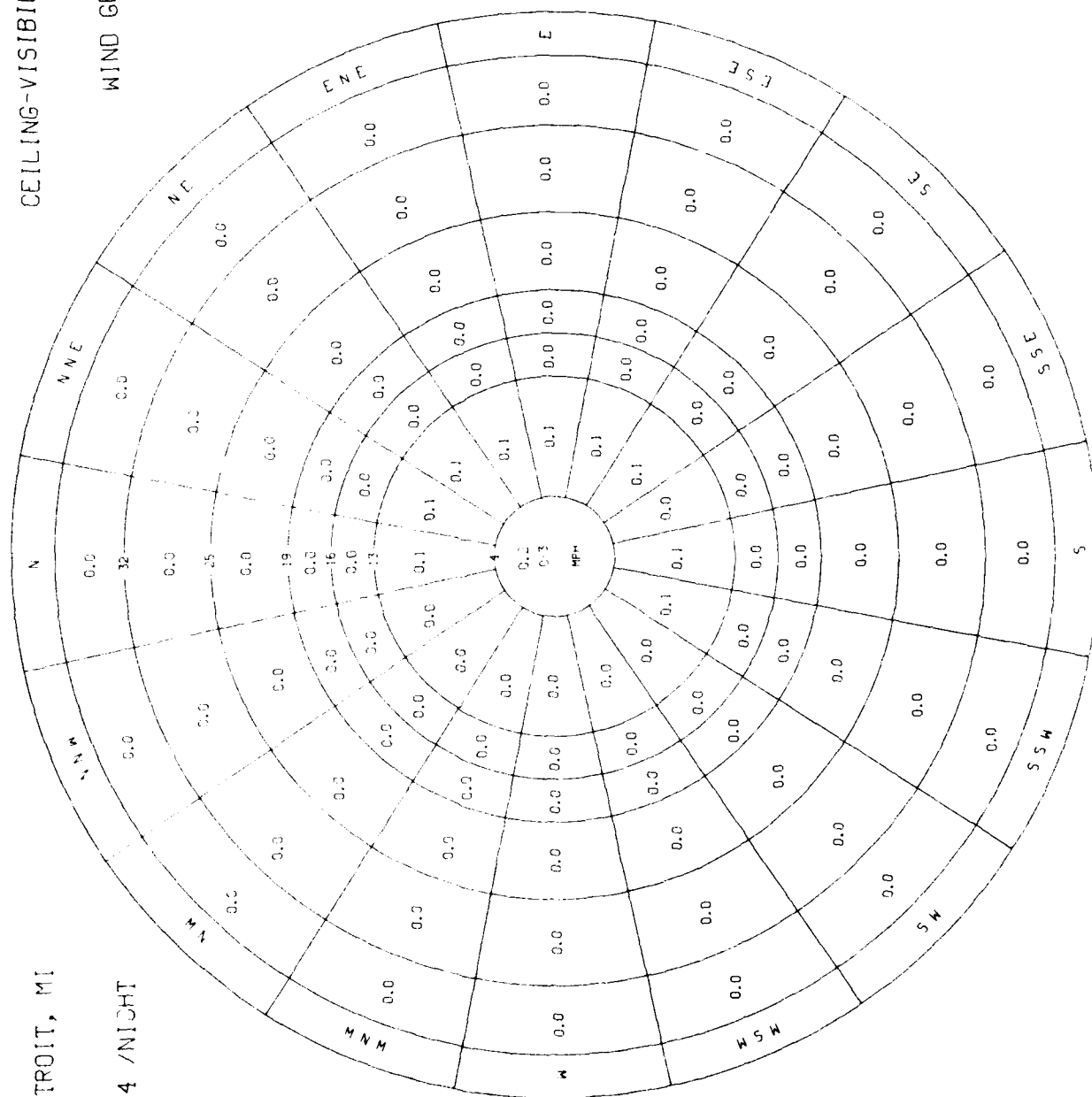
STATION NUMBER: 14822

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.3	.1	5.0	.0	.8	.0	1.0	.0	.0	.0	.3	.0	.0	.1	8.3	9.5
NNE	.0	.6	.1	4.5	.0	.8	.0	.7	.0	.3	.0	.0	.0	.0	.1	6.8	10.0
NNE	.0	1.3	.1	5.0	.0	.4	.0	.6	.0	.1	.0	.0	.0	.0	.1	7.4	8.3
ENE	.0	.6	.1	5.4	.0	.8	.0	.3	.0	.4	.0	.0	.0	.0	.1	7.5	9.9
E	.0	1.7	.1	8.8	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.2	12.7	8.5
ESE	.0	1.0	.0	3.2	.0	1.7	.0	.4	.0	.1	.0	.1	.0	.0	.1	6.5	10.3
SE	.0	1.1	.1	4.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.8	8.4
SSE	.0	.6	.1	3.5	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	4.9	8.9
S	.0	1.1	.2	10.7	.0	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.2	13.2	8.5
SSW	.0	.4	.0	3.2	.0	1.0	.0	.3	.0	.1	.0	.0	.0	.1	.1	5.1	10.9
SW	.0	.8	.0	2.4	.0	.3	.0	.3	.0	.1	.0	.1	.0	.0	.1	4.0	9.1
WSW	.0	.1	.0	.8	.0	.3	.0	.3	.0	.1	.0	.0	.0	.0	.0	1.8	12.6
W	.0	1.1	.0	1.5	.0	.3	.0	.7	.0	.3	.0	.0	.0	.0	.1	3.9	9.3
WNW	.0	.3	.0	.8	.0	.0	.0	.1	.0	.7	.0	.1	.0	.1	.0	2.2	15.0
NW	.0	.7	.0	1.4	.0	.8	.0	.4	.0	.3	.0	.3	.0	.0	.1	3.9	11.8
NNW	.0	.1	.0	.3	.0	.3	.0	.4	.0	.6	.0	.0	.0	.0	.0	1.7	15.2
CALM	.0	3.2	.9	61.2	.2	11.7	.1	6.7	.0	3.2	.0	1.0	.0	.4	1.5	100	9.3
TOTAL	.2	15.9	.9	61.2	.2	11.7	.1	6.7	.0	3.2	.0	1.0	.0	.4	1.5	100	9.3

WIND GRAPH

DET DETROIT, MI

CLASS 4 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 4 / NIGHT

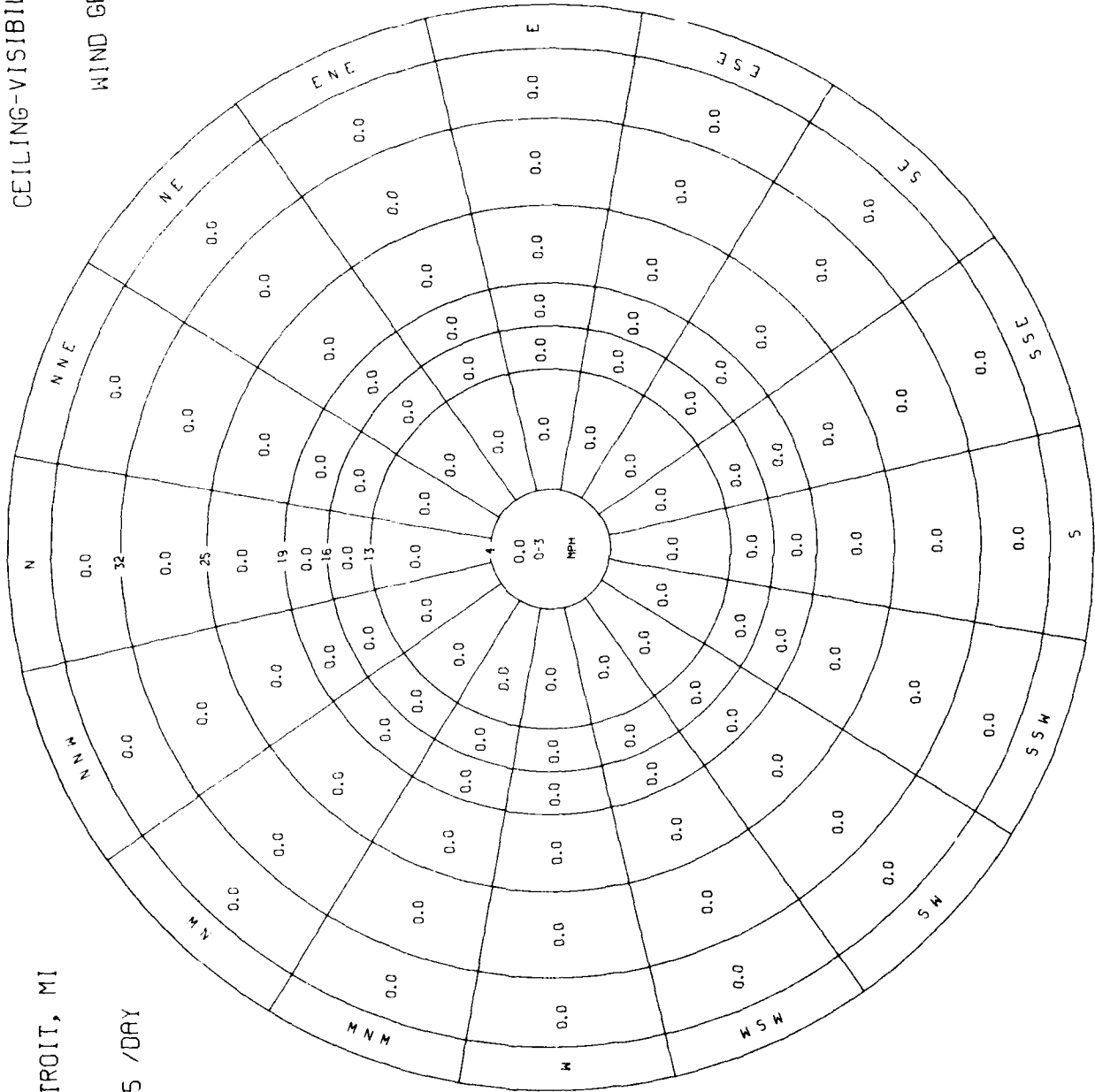
STATION NUMBER: 14822

NO. OBS.: 616

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.1	.1	6.3	.0	.6	.0	.5	.0	.2	.0	.0	.0	.0	.1 8.8
NNE	.0	.6	.1	3.6	.0	1.3	.0	1.1	.0	.2	.0	.0	.0	.0	.1 6.8
NE	.0	1.3	.1	4.7	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.1 6.7
ENE	.0	.3	.1	6.5	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.1 7.8
E	.0	1.8	.1	9.6	.0	1.8	.0	.5	.0	.0	.0	.0	.0	.0	.2 13.6
ESE	.0	.6	.1	7.0	.0	1.6	.0	.0	.0	.2	.0	.0	.0	.0	.1 9.4
SE	.0	1.1	.1	5.0	.0	.8	.0	.5	.0	.0	.0	.0	.0	.0	.1 7.5
SSE	.0	.3	.0	3.2	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1 4.5
S	.0	1.8	.1	9.1	.0	.6	.0	.5	.0	.0	.0	.2	.0	.0	.2 12.2
SSW	.0	.0	.1	4.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.2
SW	.0	.3	.0	2.1	.0	.8	.0	.2	.0	.0	.0	.0	.0	.0	.1 3.4
WSW	.0	.2	.0	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
W	.0	.6	.0	1.6	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0 2.4
WNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
NW	.0	1.0	.0	1.8	.0	.5	.0	.3	.0	.2	.0	.0	.0	.0	.1 3.7
NNW	.0	.5	.0	1.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
CALM	.0	3.1													.0 3.1
TOTAL	.2	14.8	1.0	68.8	.2	10.7	.1	4.5	.0	.8	.0	.2	.0	.2	1.5 100 8.3

CEILING-VISIBILITY

WIND GRAPH



DET DETROIT, MI

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14822

NO. OBS.: 126

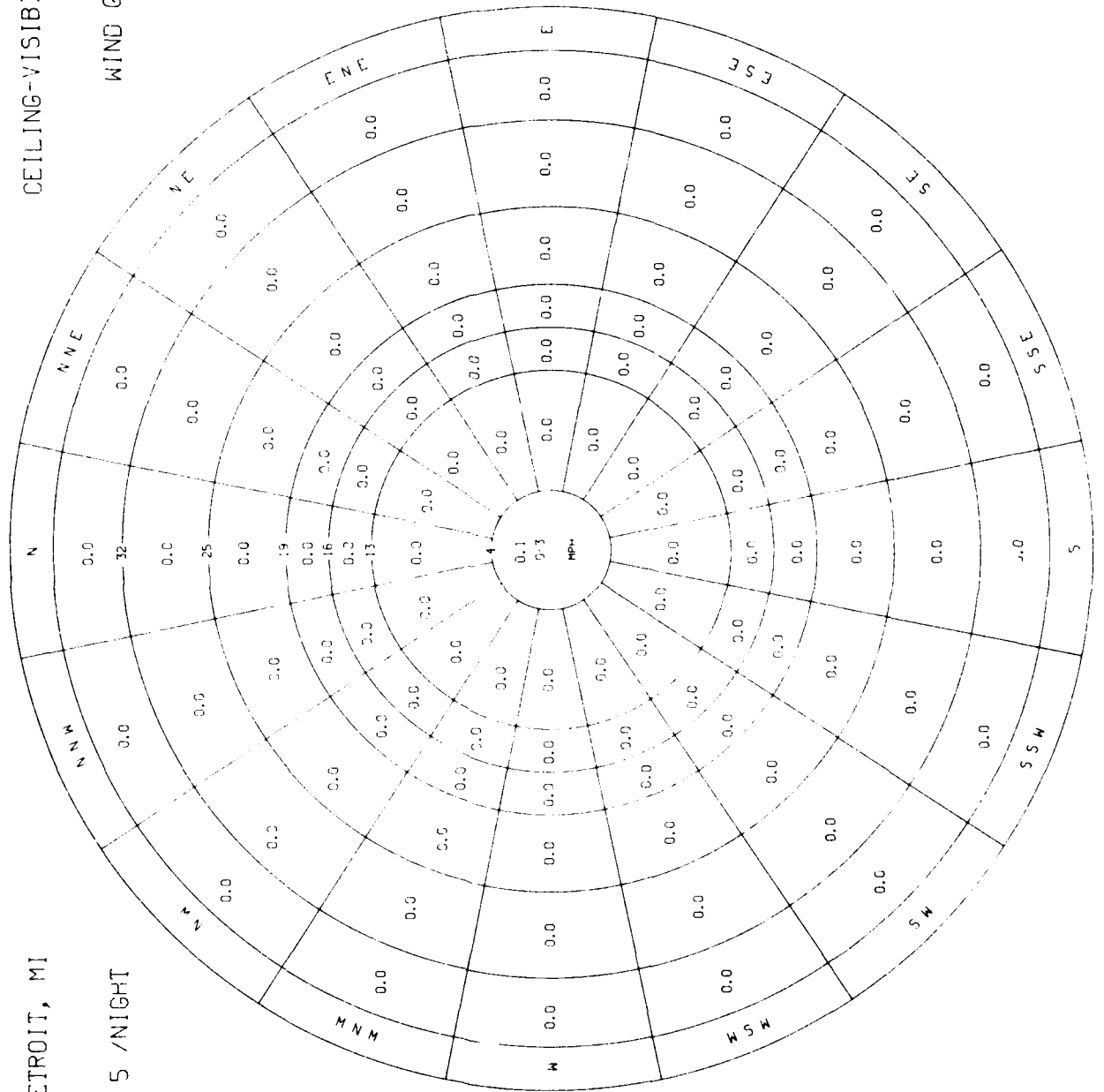
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	1.6	.0	11.1	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	14.3	7.2
NNE	.0	.0	.0	3.2	.0	.8	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	6.3	13.4
NE	.0	4.8	.0	7.1	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	14.3	7.7
ENE	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	9.0
E	.0	2.4	.0	12.7	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	15.9	7.4
ESE	.0	.8	.0	6.3	.0	2.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	10.3	9.4
SE	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	9.7
SSE	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.5
S	.0	.0	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	8.1
SSW	.0	.0	.0	4.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	9.2
SW	.0	.8	.0	2.4	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	10.8
WSW	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.0
W	.0	1.6	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	6.6
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	21.0
NW	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	1.6	19.5
NNW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	1.6	15.5
CALM	.0	4.8													.0	.0	4.8	
TOTAL	.0	17.5	.2	65.9	.0	7.1	.0	4.8	.0	4.0	.0	.8	.0	.0	.3	100		8.4

DET DETROIT, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DET DETROIT, MI

CLASS 5 / NIGHT

NO. OBS.: 134

STATION NUMBER: 14822

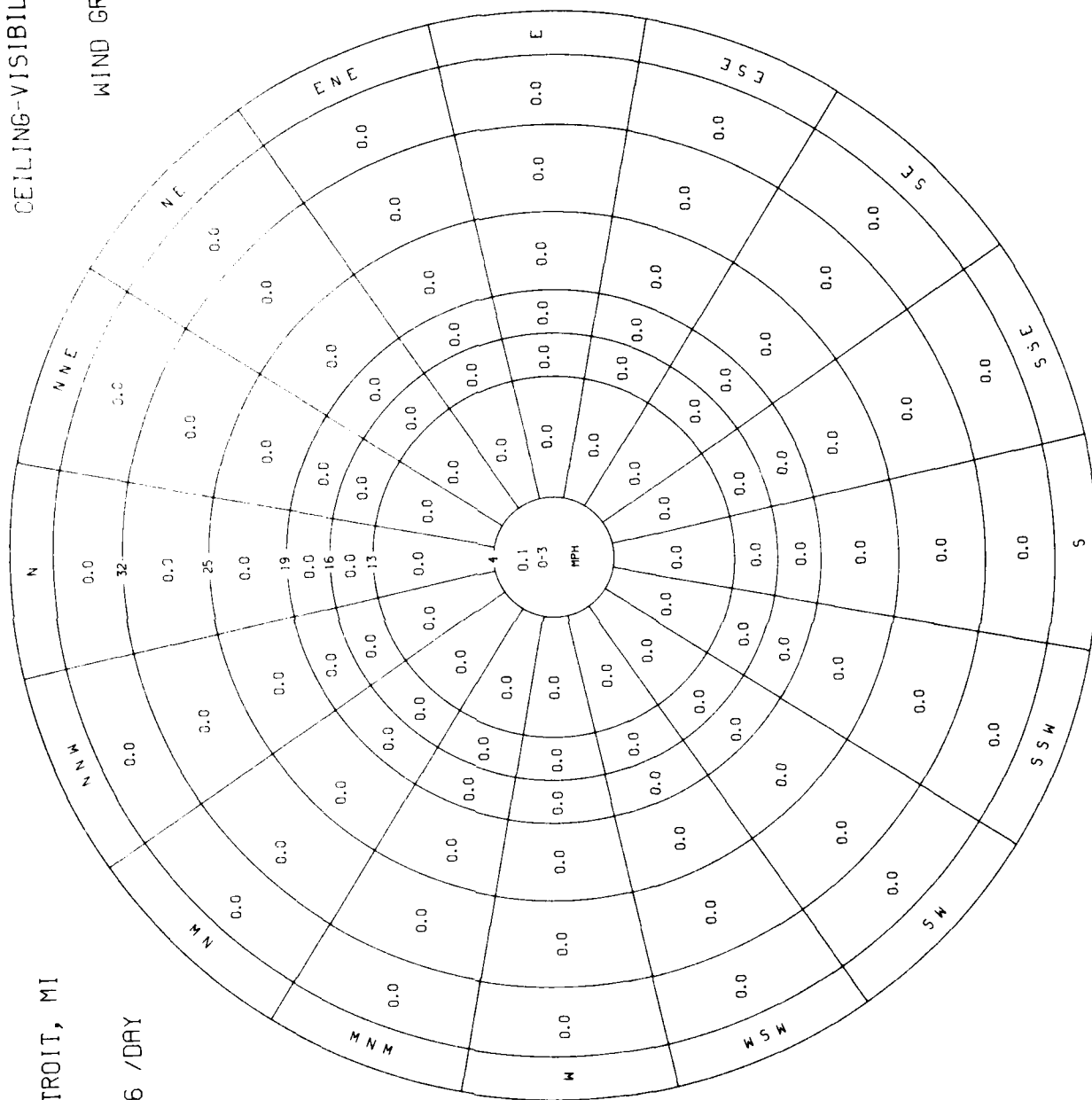
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	3.0	.0	5.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 9.0
NNE	.0	1.5	.0	2.2	.0	1.5	.0	.0	.0	.7	.0	.0	.0	.0	.0 6.0
NE	.0	.7	.0	4.5	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 6.0
ENE	.0	2.2	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.7
E	.0	.7	.0	13.4	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.1 15.7
ESE	.0	.7	.0	11.9	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 13.4
SE	.0	.7	.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.2
SSE	.0	.7	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.5
S	.0	1.5	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0
SSW	.0	.7	.0	3.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 4.5
SW	.0	.7	.0	5.2	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0 7.5
WSW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.7
W	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.7
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0
NW	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
NNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0 2.2
CALM	.0	3.7													.0 3.7
TOTAL	.1	17.9	.2	73.1	.0	3.0	.0	4.5	.0	1.5	.0	.0	.0	.0	.3 100
															7.4

CEILING-VISIBILITY

WIND GRAPH

DET DETROIT, MI

CLASS 6 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 6 / DAY

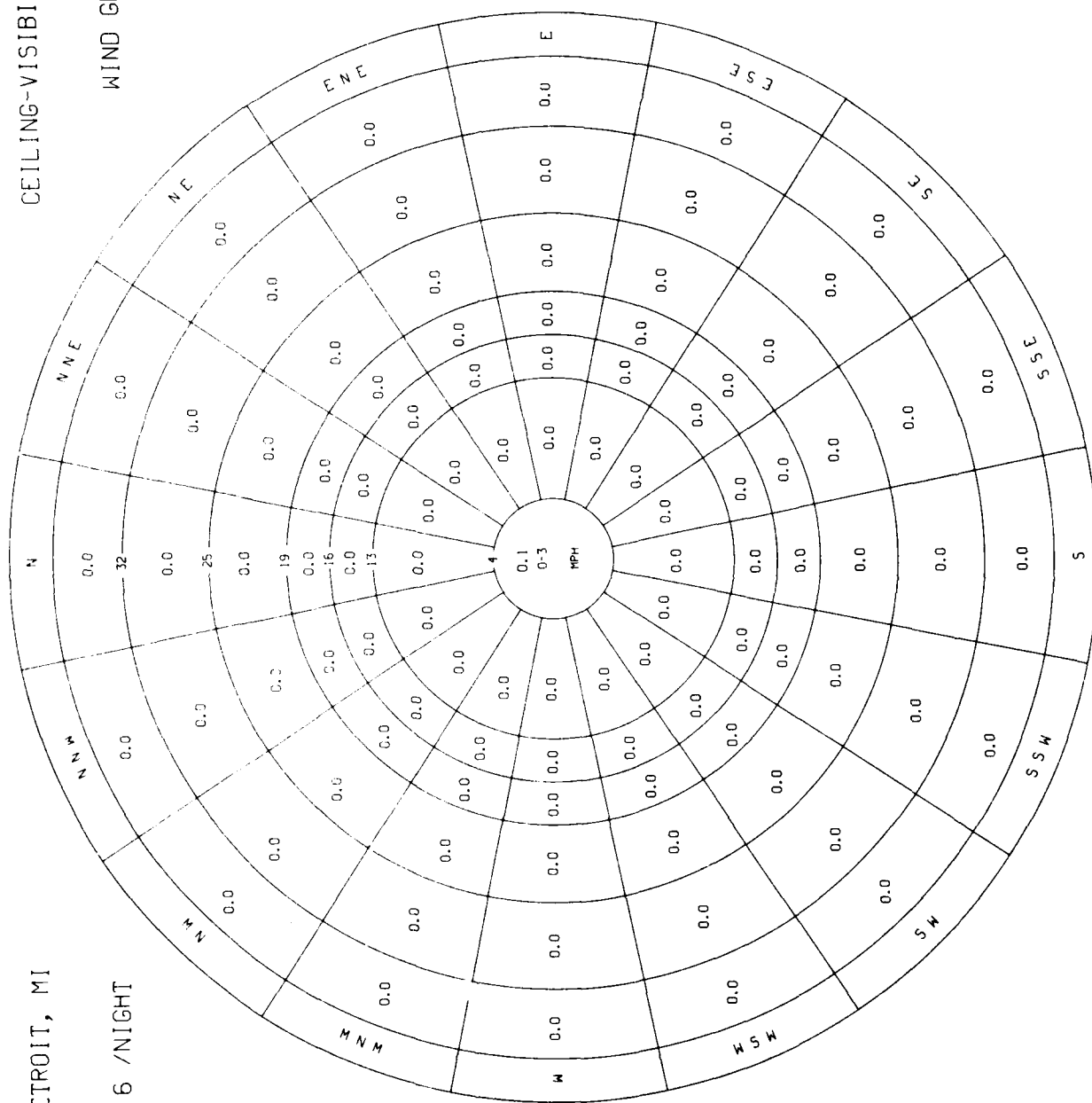
STATION NUMBER: 14822

NO. OBS.: 112

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	5.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	3.4
NNE	.0	.9	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	4.7
NE	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.7
ENE	.0	2.7	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	5.1
E	.0	1.8	.0	8.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.7	7.7
ESE	.0	1.8	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	6.4
SE	.0	4.5	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	4.8
SSE	.0	.9	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.0
S	.0	3.6	.0	11.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.2	6.3
SSW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	6.3
SW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.5
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	9.7
WNW	.0	.9	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	5.5
NW	.0	2.7	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	5.0
NNW	.0	2.7	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.0
CALM	.0	7.1													.0	7.1	
TOTAL	.1	35.7	.1	62.5	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.2	100	5.4

DET DETROIT, MI

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14822

NO. OBS.: 125

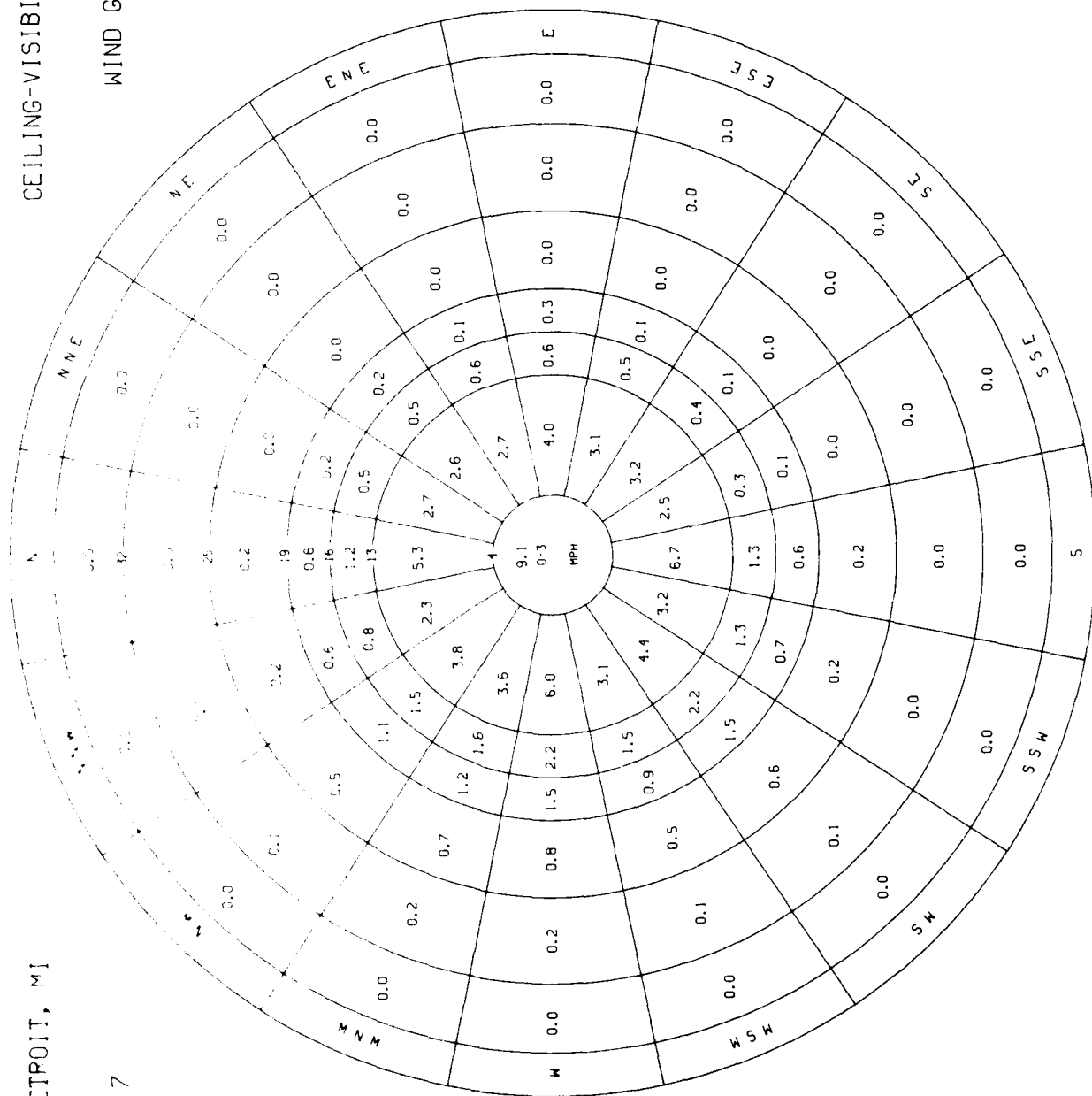
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	3.2	.0	9.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 12.8
NNE	.0	3.2	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.2
NE	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
ENE	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.2
E	.0	4.8	.0	8.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 13.6
ESE	.0	.8	.0	11.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 12.0
SE	.0	.0	.0	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.0
SSE	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.2
S	.0	2.4	.0	3.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.4
SSW	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
SW	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
W	.0	2.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.2
WNW	.0	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0 1.6
NW	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.2
NNW	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.2
CALM	.0	15.2													.0 15.2
TOTAL	.1	36.8	.2	61.6	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.3 100

CEILING-VISIBILITY

WIND GRAPH

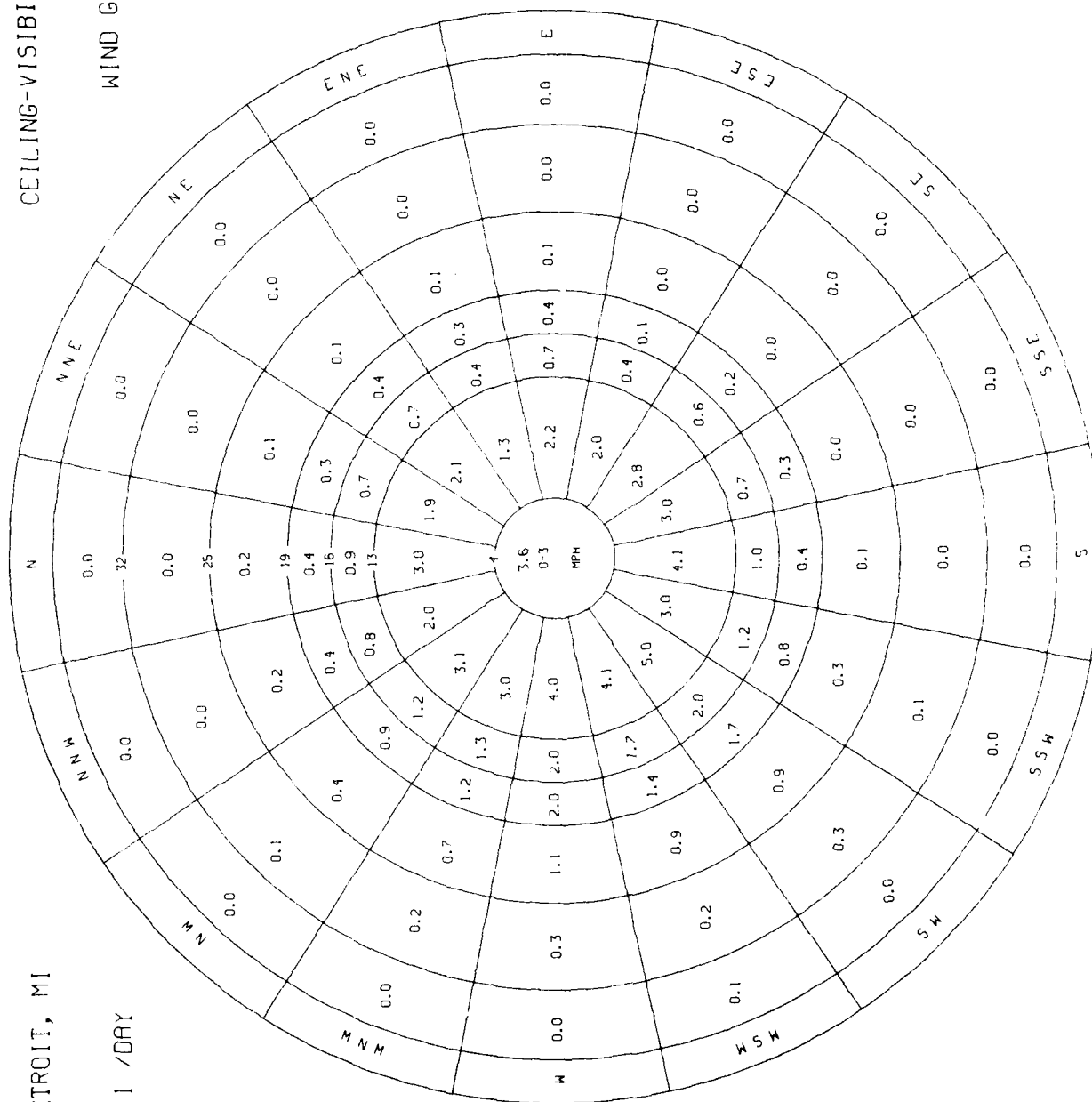
DET DETROIT, MI

CLASS 7



CEILING-VISIBILITY WIND GRAPH

DTW DETROIT, MI
CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: DTW DETROIT, MI

CLASS 1 / DAY

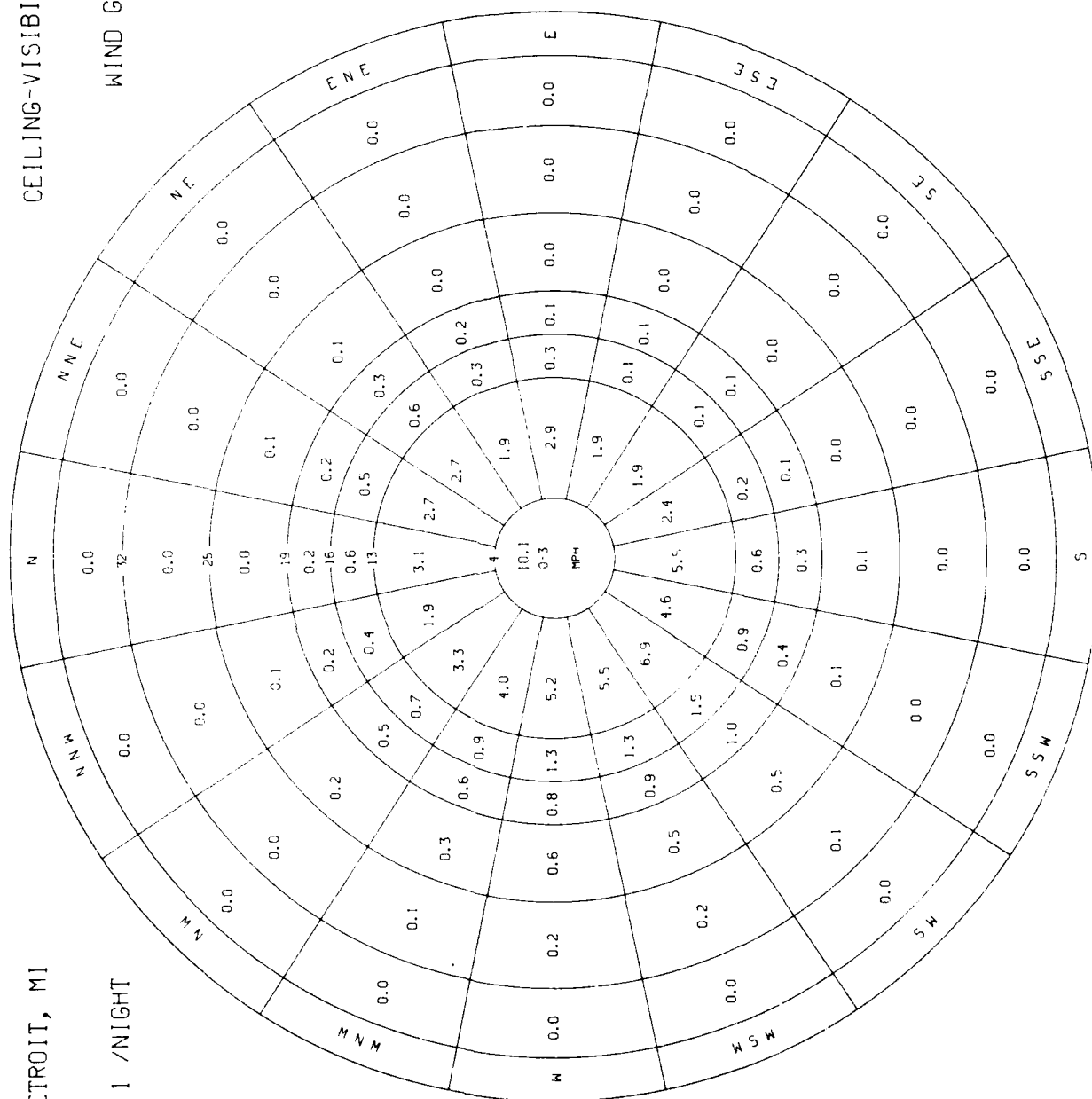
NO. OBS.: 26714

STATION NUMBER: 94647

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.2	3.0	3.6	.9	1.1	.4	.5	.2	.2	.0	.0	.0	.0	4.7 5.5 10.8
NNE	.1	.1	1.9	2.3	.7	.8	.3	.3	.1	.1	.0	.0	.0	.0	3.1 3.7 10.8
NE	.1	.2	2.1	2.4	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	3.3 4.0 10.8
ENE	.1	.1	1.3	1.6	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.2 2.6 10.9
E	.1	.1	2.2	2.7	.7	.8	.4	.4	.1	.2	.0	.0	.0	.0	3.6 4.2 10.9
ESE	.1	.1	2.0	2.4	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	2.6 3.1 9.6
SE	.2	.2	2.8	3.3	.6	.7	.2	.2	.0	.0	.0	.0	.0	.0	3.8 4.5 9.6
SSE	.1	.1	3.0	3.6	.7	.8	.3	.3	.0	.0	.0	.0	.0	.0	4.1 4.8 10.1
S	.2	.2	4.1	4.8	1.0	1.2	.4	.5	.1	.2	.0	.0	.0	.0	5.9 7.0 10.4
SSW	.2	.2	3.0	3.6	1.2	1.4	.8	.9	.3	.3	.1	.1	.0	.0	5.5 6.5 11.7
SW	.2	.3	5.0	5.9	2.0	2.4	1.7	2.0	.9	1.1	.3	.3	.0	.1	10.2 12.1 12.7
WSW	.2	.2	4.1	4.8	1.7	2.1	1.4	1.6	.9	1.1	.2	.2	.1	.1	8.6 10.2 12.9
W	.3	.4	4.0	4.7	2.0	2.3	2.0	2.3	1.1	1.3	.3	.3	.0	.1	9.7 11.5 13.3
WNW	.1	.2	3.0	3.6	1.3	1.6	1.2	1.4	.7	.8	.2	.2	.0	.0	6.6 7.8 13.0
NW	.1	.1	3.1	3.7	1.2	1.4	.9	1.1	.4	.5	.1	.1	.0	.0	5.9 7.0 12.2
NNW	.1	.1	2.0	2.4	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	3.5 4.2 11.5
CALM	1.2	1.5													1.2 1.5
TOTAL	3.6	4.2	46.7	55.4	16.3	19.3	11.1	13.1	5.4	6.4	1.1	1.3	.2	.2	84.3 100 11.6

CEILING-VISIBILITY
WIND GRAPH

DTW DETROIT, MI
CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: DTW DETROIT, MI

CLASS 1 / NIGHT

NO. OBS.: 22984

STATION NUMBER: 94847

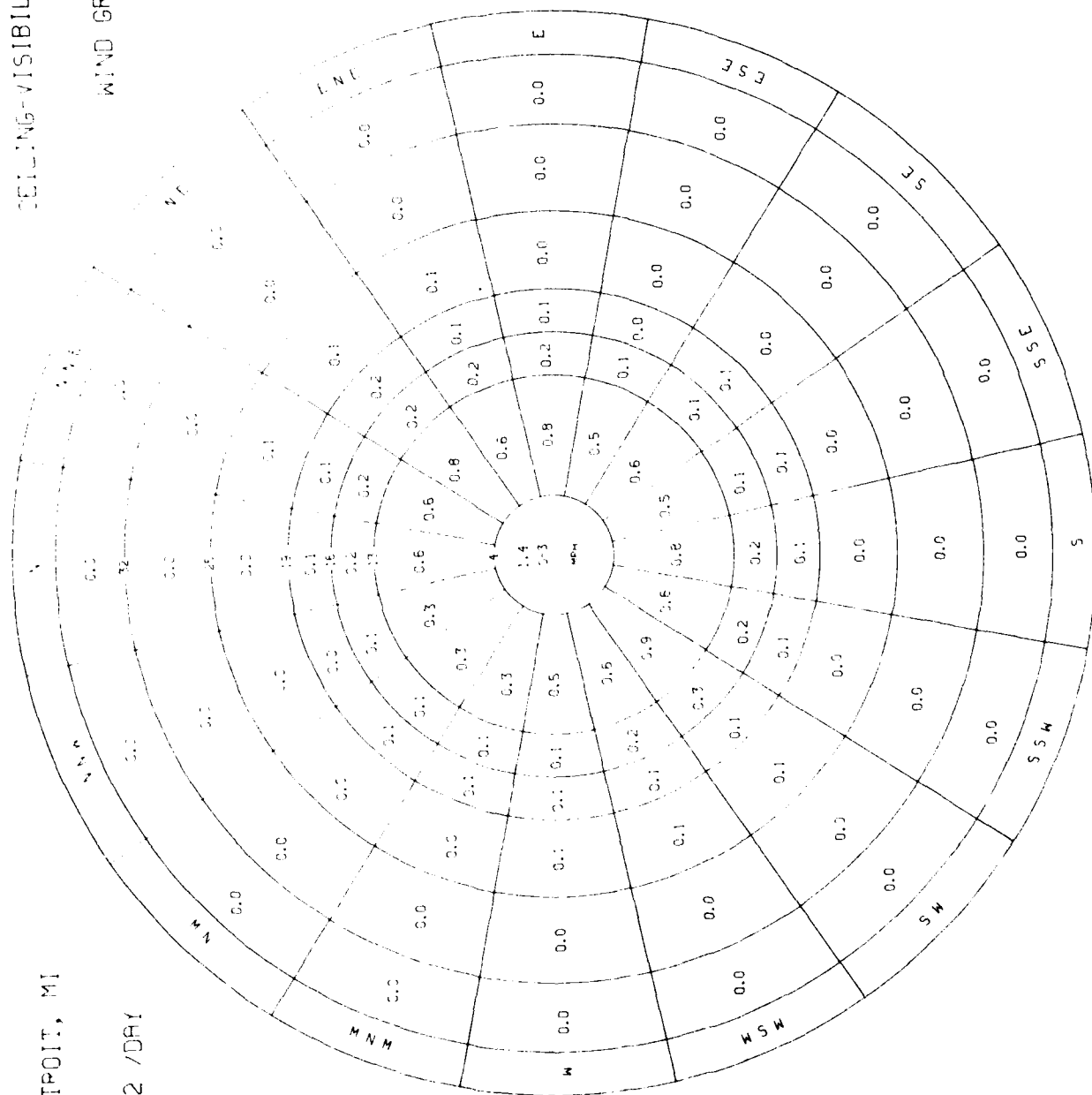
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	.3	3.1	3.7	.6	.7	.2	.3	.0	.0	.0	.0	.0	.0	4.2 4.9 9.3
NNE	.2	.2	2.7	3.2	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	3.7 4.3 9.4
NE	.3	.4	2.7	3.2	.6	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.9 4.6 9.3
ENE	.3	.3	1.9	2.2	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	2.7 3.1 8.7
E	.3	.4	2.9	3.3	.3	.4	.1	.1	.0	.1	.0	.0	.0	.0	3.7 4.3 8.2
ESE	.3	.4	1.9	2.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	2.4 2.8 7.1
SE	.4	.5	1.9	2.2	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.6 3.0 7.2
SSE	.3	.3	2.4	2.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.0 3.4 7.7
S	.8	.9	5.5	6.3	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	7.2 8.4 8.1
SSW	.4	.5	4.6	5.4	.9	1.0	.4	.4	.1	.1	.0	.0	.0	.0	6.4 7.5 9.1
SW	.7	.9	6.9	8.0	1.5	1.8	1.0	1.2	.5	.5	.1	.1	.0	.0	10.7 12.5 10.1
WSW	.5	.6	5.5	6.3	1.3	1.5	.9	1.0	.5	.5	.2	.2	.0	.0	8.7 10.1 10.5
W	.7	.8	5.2	6.0	1.3	1.5	.8	1.0	.6	.7	.2	.2	.0	.0	8.8 10.3 10.7
WNW	.3	.4	4.0	4.6	.9	1.0	.6	.6	.3	.4	.1	.1	.0	.0	6.2 7.2 10.3
NW	.4	.5	3.3	3.8	.7	.8	.5	.6	.2	.2	.0	.0	.0	.0	5.2 6.0 10.0
NNW	.2	.2	1.9	2.2	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.9 3.3 9.6
CALM	3.8	4.4													3.8 4.4
TOTAL	10.1	11.8	56.3	65.5	10.3	12.0	5.8	6.8	2.6	3.1	.6	.7	.1	.1	85.9 100 9.0

CEILING-VISIBILITY

WIND GRAPH

DTW DETROIT, MI

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CW DETROIT, MI

PERIOD: 1959-1978

CLASS 2 / DAY

STATION NUMBER: 94247

NO. OBS.: 4978

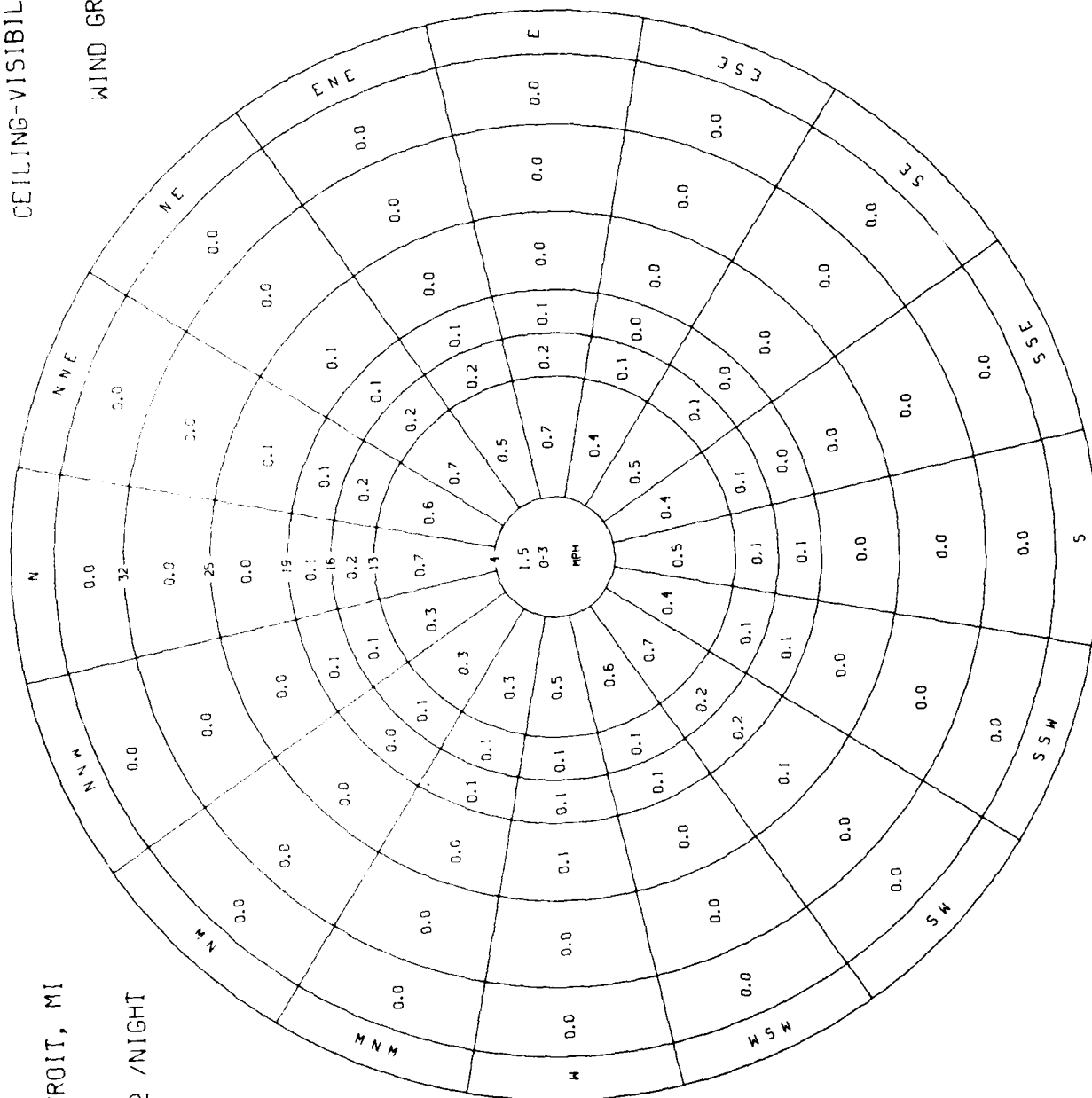
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.6	3.8	.2	1.1	.1	.5	.0	.3	.0	.0	.0	.0	1.0 6.1 10.7
NNE	.0	.2	.6	3.5	.2	1.3	.1	.8	.1	.4	.0	.1	.0	.0	1.0 6.3 11.6
NE	.1	.5	.8	4.8	.2	1.5	.2	1.0	.1	.4	.0	.1	.0	.0	1.3 8.4 10.8
ENE	.0	.3	.6	3.7	.2	1.1	.1	.8	.1	.6	.0	.1	.0	.0	1.0 6.6 11.6
E	.1	.5	.8	5.1	.2	1.3	.1	.7	.0	.3	.0	.1	.0	.0	1.3 8.0 10.4
ESE	.1	.4	.5	3.2	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.7 4.5 8.7
SE	.0	.3	.6	3.8	.1	.7	.1	.3	.0	.1	.0	.0	.0	.0	.8 5.2 9.3
SSE	.0	.2	.5	3.4	.1	.7	.1	.3	.0	.1	.0	.0	.0	.0	.7 4.8 9.9
S	.1	.4	.8	5.2	.2	1.3	.1	.6	.0	.3	.0	.0	.0	.0	1.2 7.8 10.1
SSW	.0	.3	.6	4.0	.2	1.0	.1	.4	.0	.2	.0	.0	.0	.0	.9 5.9 10.0
SW	.1	.5	.9	6.0	.3	1.8	.1	.9	.1	.4	.0	.1	.0	.1	1.5 9.8 10.9
WSW	.1	.4	.6	3.6	.2	1.1	.1	.9	.1	.6	.0	.1	.0	.0	1.1 6.7 11.8
W	.1	.4	.5	3.0	.1	.6	.1	.6	.1	.4	.0	.1	.0	.0	.8 5.2 11.1
WNW	.0	.2	.3	1.2	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.6 3.8 12.5
NW	.0	.3	.3	2.1	.1	.9	.1	.7	.0	.3	.0	.2	.0	.0	.7 4.3 11.9
NNW	.0	.1	.3	1.7	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.5 3.1 11.4
CALM	.6	3.6													.6 3.6
TOTAL	1.4	8.9	3.2	58.8	2.6	16.5	1.5	9.9	.8	4.8	.2	1.1	.0	.2	15.7 100 10.4

CEILING-VISIBILITY

WIND GRAPH

DTW DETROIT, MI

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: DTW DETROIT, MI

CLASS 2 / NIGHT

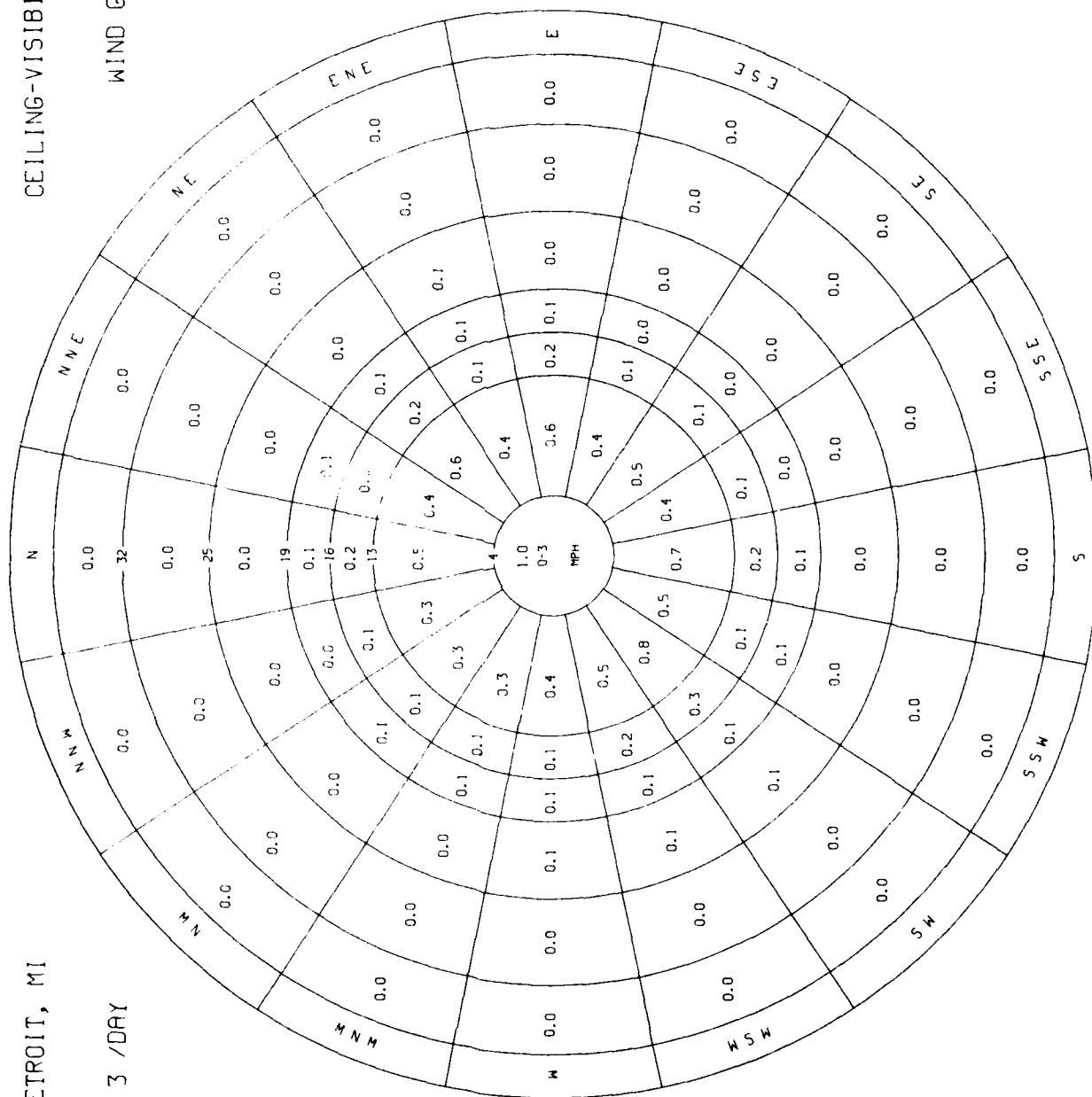
NO. OBS.: 3762

STATION NUMBER: 94847

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.7	4.6	.2	1.3	.1	.8	.0	.3	.0	.0	.0	.0	1.0 7.3 11.1
NNE	.0	.2	.6	4.1	.2	1.4	.1	1.0	.1	.4	.0	.1	.0	.0	1.0 7.1 11.7
NE	.0	.3	.7	4.9	.2	1.6	.1	1.0	.1	.6	.0	.1	.0	.0	1.2 8.6 11.4
ENE	.1	.6	.5	3.9	.2	1.2	.1	1.0	.0	.3	.0	.1	.0	.0	1.0 7.0 10.6
E	.1	.6	.7	5.2	.2	1.3	.1	1.1	.0	.3	.0	.1	.0	.0	1.2 8.5 10.3
ESE	.1	.5	.4	3.1	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6 4.3 8.4
SE	.1	.4	.5	3.3	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.6 4.4 8.5
SSE	.1	.4	.4	2.8	.1	.5	.0	.1	.0	.1	.0	.0	.0	.0	.6 3.9 8.8
S	.1	.6	.5	3.8	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.8 6.0 9.5
SSW	.1	.4	.4	3.2	.1	.7	.1	.6	.0	.2	.0	.0	.0	.0	.7 5.1 10.1
SW	.1	.4	.7	4.6	.2	1.5	.2	1.1	.1	.4	.0	.1	.0	.0	1.1 8.2 11.0
WSW	.1	.4	.6	4.1	.1	.9	.1	1.0	.0	.3	.0	.1	.0	.0	1.0 6.9 10.7
W	.1	.4	.5	3.3	.1	.7	.1	1.1	.1	.4	.0	.1	.0	.1	.8 6.0 11.2
WNW	.1	.4	.3	2.5	.1	.4	.1	.5	.0	.2	.0	.2	.0	.0	.6 4.1 11.0
NW	.0	.3	.3	2.4	.1	1.1	.0	.3	.0	.3	.0	.1	.0	.0	.6 4.5 11.2
NNW	.0	.2	.3	2.0	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.5 3.4 10.7
CALM	.7	4.7													.7 4.7
TOTAL	1.5	11.0	8.1	57.9	2.1	15.1	1.5	10.8	.6	4.3	.1	.9	.0	.1	14.1 100 10.0

CEILING-VISIBILITY WIND GRAPH

DTW DETROIT, MI
CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 3 / DAY

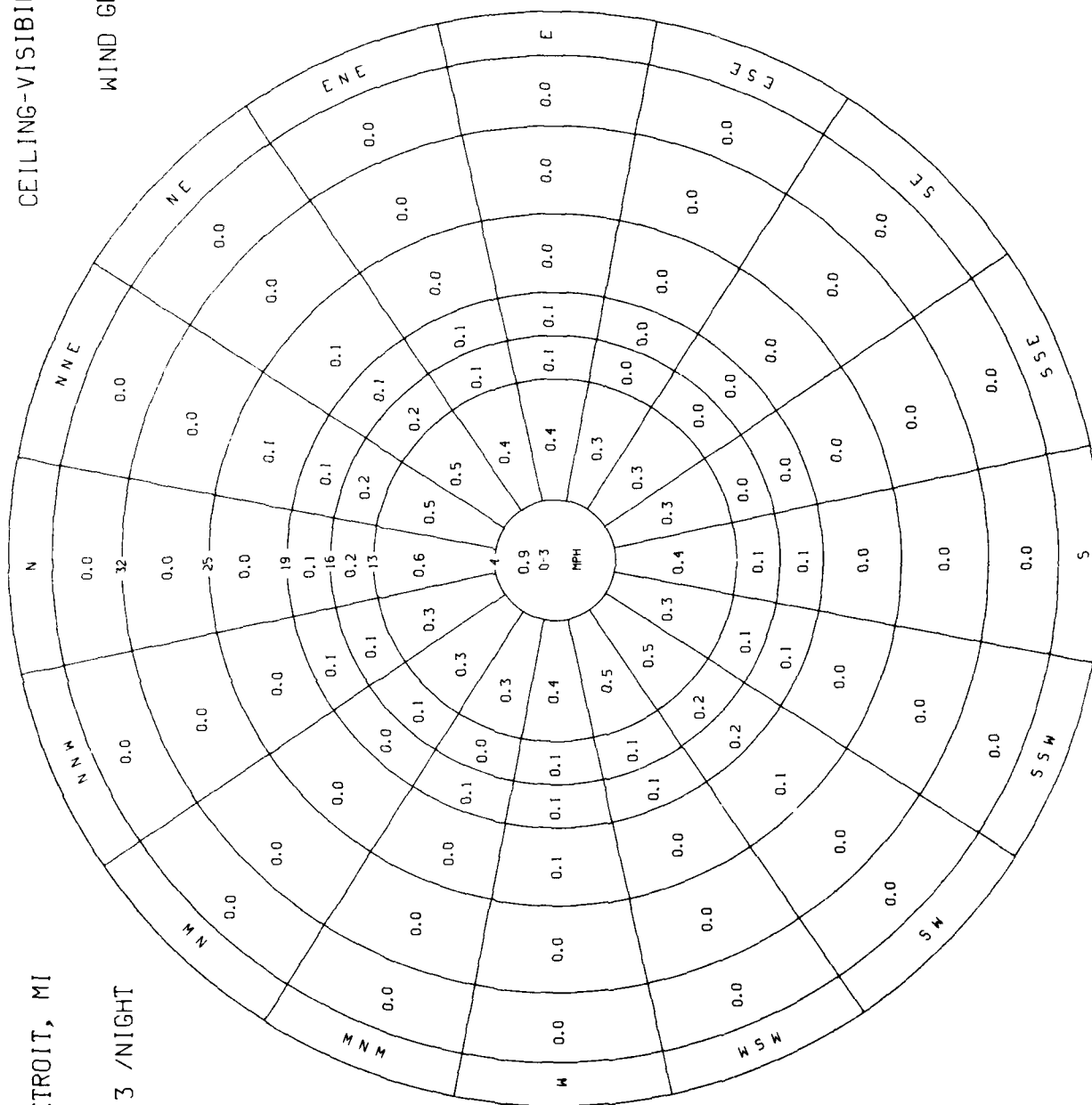
STATION NUMBER: 94847

NO. OBS.: 4093

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.5	3.9	.2	1.3	.1	.6	.0	.2	.0	.0	.0	.0	.8 6.2 10.6
NNE	.0	.1	.4	3.2	.2	1.3	.1	.8	.0	.4	.0	.1	.0	.0	.8 6.0 11.9
NE	.1	.5	.6	4.7	.2	1.5	.1	1.1	.0	.3	.0	.1	.0	.0	1.1 8.2 10.9
ENE	.0	.3	.4	3.3	.1	1.1	.1	.9	.1	.6	.0	.1	.0	.0	.8 6.2 11.8
E	.1	.5	.6	4.7	.2	1.3	.1	.8	.0	.3	.0	.1	.0	.0	1.0 7.7 10.6
ESE	.0	.3	.4	2.8	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.5 4.0 9.2
SE	.0	.1	.5	3.5	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.6 4.8 9.6
SSE	.0	.2	.4	2.9	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.5 4.2 10.1
S	.0	.3	.7	5.1	.2	1.4	.1	.7	.0	.3	.0	.0	.0	.0	1.0 7.8 10.4
SSW	.0	.3	.5	4.1	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.8 6.2 10.2
SW	.1	.4	.8	6.3	.3	2.1	.1	1.1	.1	.5	.0	.1	.0	.1	1.4 10.5 11.1
WSW	.0	.4	.5	3.8	.2	1.2	.1	1.1	.1	.6	.0	.1	.0	.0	.9 7.3 12.0
W	.0	.3	.4	3.3	.1	.7	.1	.7	.1	.4	.0	.1	.0	.0	.7 5.6 11.2
WNW	.0	.2	.3	2.0	.1	.8	.1	.7	.0	.3	.0	.1	.0	.0	.5 4.1 12.4
NW	.0	.2	.3	2.2	.1	1.0	.1	.7	.0	.3	.0	.1	.0	.0	.6 4.6 11.9
NNW	.0	.1	.3	2.0	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.4 3.5 11.3
CALM	.4	3.2													.4 3.2
TOTAL	1.0	7.9	7.5	57.9	2.2	17.4	1.4	10.8	.6	4.9	.1	1.0	.0	.2	12.9 100 10.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 3 / NIGHT

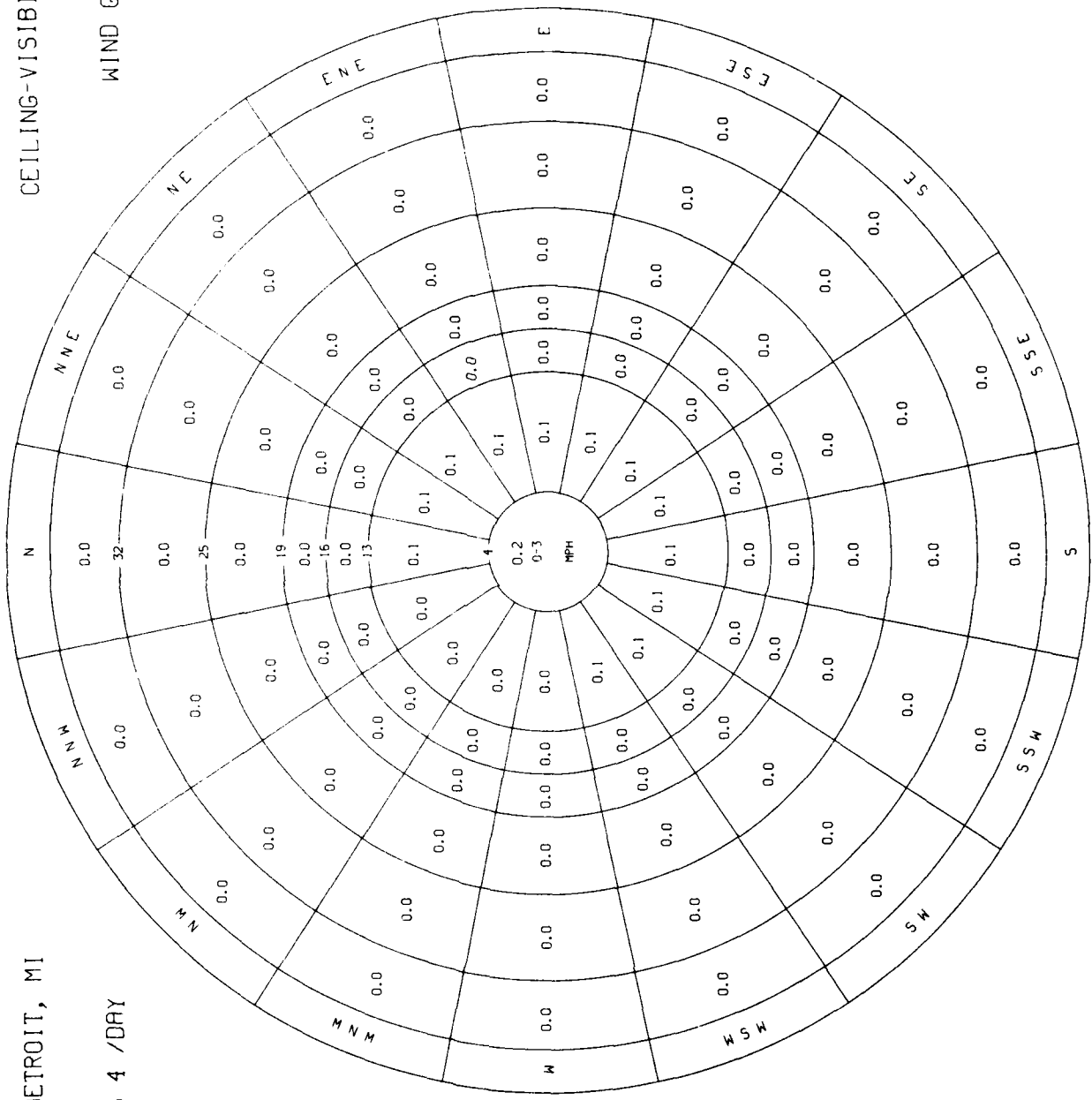
STATION NUMBER: 94847

NO. OBS.: 2913

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.6	5.1	.2	1.6	.1	.9	.0	.3	.0	.0	.0	.0	.9 8.2
NNE	.0	.2	.5	4.4	.2	1.7	.1	1.1	.1	.5	.0	.0	.0	.0	.9 8.0
NNE	.0	.2	.5	4.7	.2	1.9	.1	1.2	.1	.6	.0	.2	.0	.0	1.0 8.8
ENE	.0	.4	.4	3.5	.1	1.2	.1	1.1	.0	.4	.0	.1	.0	.0	.7 6.6
E	.0	.4	.4	4.1	.1	1.3	.1	1.1	.0	.4	.0	.1	.0	.0	.8 7.3
ESE	.1	.5	.3	2.7	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4 4.0
SE	.0	.4	.3	2.4	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.4 3.4
SSE	.0	.4	.3	2.6	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.4 3.7
S	.0	.4	.4	3.3	.1	1.2	.1	.5	.0	.2	.0	.0	.0	.0	.6 5.5
SSW	.0	.3	.3	3.2	.1	.8	.1	.7	.0	.1	.0	.0	.0	.0	.6 5.2
SW	.0	.3	.5	4.6	.2	1.8	.2	1.4	.1	.5	.0	.1	.0	.0	.9 8.6
WSW	.0	.3	.5	4.2	.1	1.2	.1	1.2	.0	.4	.0	.1	.0	.0	.8 7.4
W	.0	.4	.4	3.4	.1	.9	.1	1.2	.1	.5	.0	.1	.0	.0	.7 6.6
WNW	.0	.2	.3	2.6	.0	.4	.1	.6	.0	.3	.0	.2	.0	.0	.5 4.4
NW	.0	.2	.3	2.8	.1	1.3	.0	.4	.0	.3	.0	.1	.0	.0	.5 5.0
NNW	.0	.1	.3	2.4	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.4 3.9
CALM	.4	3.5													.4 3.5
TOTAL	.9	8.4	6.1	56.0	1.9	17.2	1.4	12.5	.5	4.9	.1	1.0	.0	.0	10.9 10.7

CEILING-VISIBILITY
WIND GRAPH

DTW DETROIT, MI
CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 4 / DAY

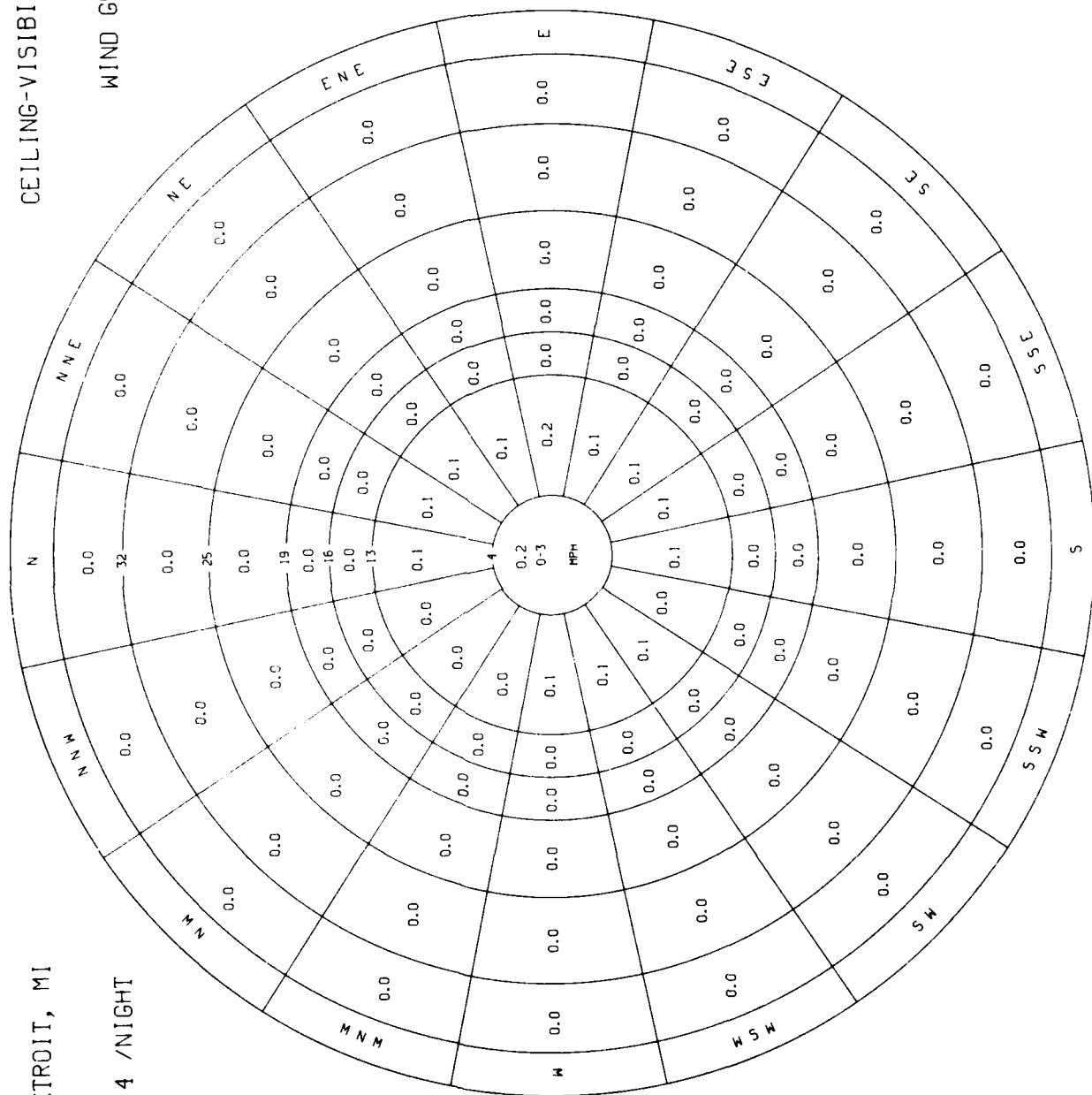
STATION NUMBER: 94847

NO. OBS.: 607

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.1	4.1	.0	.7	.0	.7	.0	.8	.0	.0	.0	.0	.1 6.3 11.6
NNE	.0	.3	.1	4.1	.0	2.0	.0	.8	.0	.5	.0	.0	.0	.0	.1 7.7 11.6
NE	.0	.3	.1	6.1	.0	2.3	.0	.7	.0	.2	.0	.0	.0	.0	.2 9.6 10.5
ENE	.0	.3	.1	5.3	.0	1.5	.0	.7	.0	1.0	.0	.3	.0	.0	.2 9.1 11.6
E	.0	.3	.1	6.6	.0	1.8	.0	.3	.0	.3	.0	.2	.0	.0	.2 9.6 10.3
ESE	.0	1.0	.1	5.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1 6.6 7.0
SE	.0	.7	.1	5.1	.0	.7	.0	.2	.0	.2	.0	.0	.0	.0	.1 6.8 8.8
SSE	.0	.3	.1	4.9	.0	1.0	.0	.3	.0	.3	.0	.0	.0	.0	.1 6.9 10.0
S	.0	.3	.1	5.6	.0	1.3	.0	.2	.0	.3	.0	.0	.0	.0	.1 7.7 9.8
SSW	.0	.5	.1	3.0	.0	.8	.0	.2	.0	.2	.0	.0	.0	.0	.1 4.6 9.0
SW	.0	.7	.1	4.6	.0	.8	.0	.2	.0	.0	.0	.2	.0	.0	.1 6.4 8.9
WSW	.0	.2	.1	3.0	.0	.3	.0	.2	.0	.2	.0	.2	.0	.0	.1 4.0 10.0
W	.0	.8	.0	1.6	.0	.5	.0	.2	.0	.5	.0	.0	.0	.0	.1 3.6 10.0
WNW	.0	.2	.0	1.0	.0	.3	.0	.7	.0	.2	.0	.3	.0	.0	.1 2.6 13.8
NW	.0	.3	.0	1.5	.0	.5	.0	.5	.0	.3	.0	.5	.0	.0	.1 3.6 13.8
NNW	.0	.0	.0	.7	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0 1.3 12.4
CALM	.1	3.6													.1 3.6
TOTAL	.2	9.9	1.2	62.4	.3	14.7	.1	6.4	.1	4.9	.0	1.6	.0	.0	1.9 100 9.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 4 / NIGHT

STATION NUMBER: 94847

NO. OBS.: 490

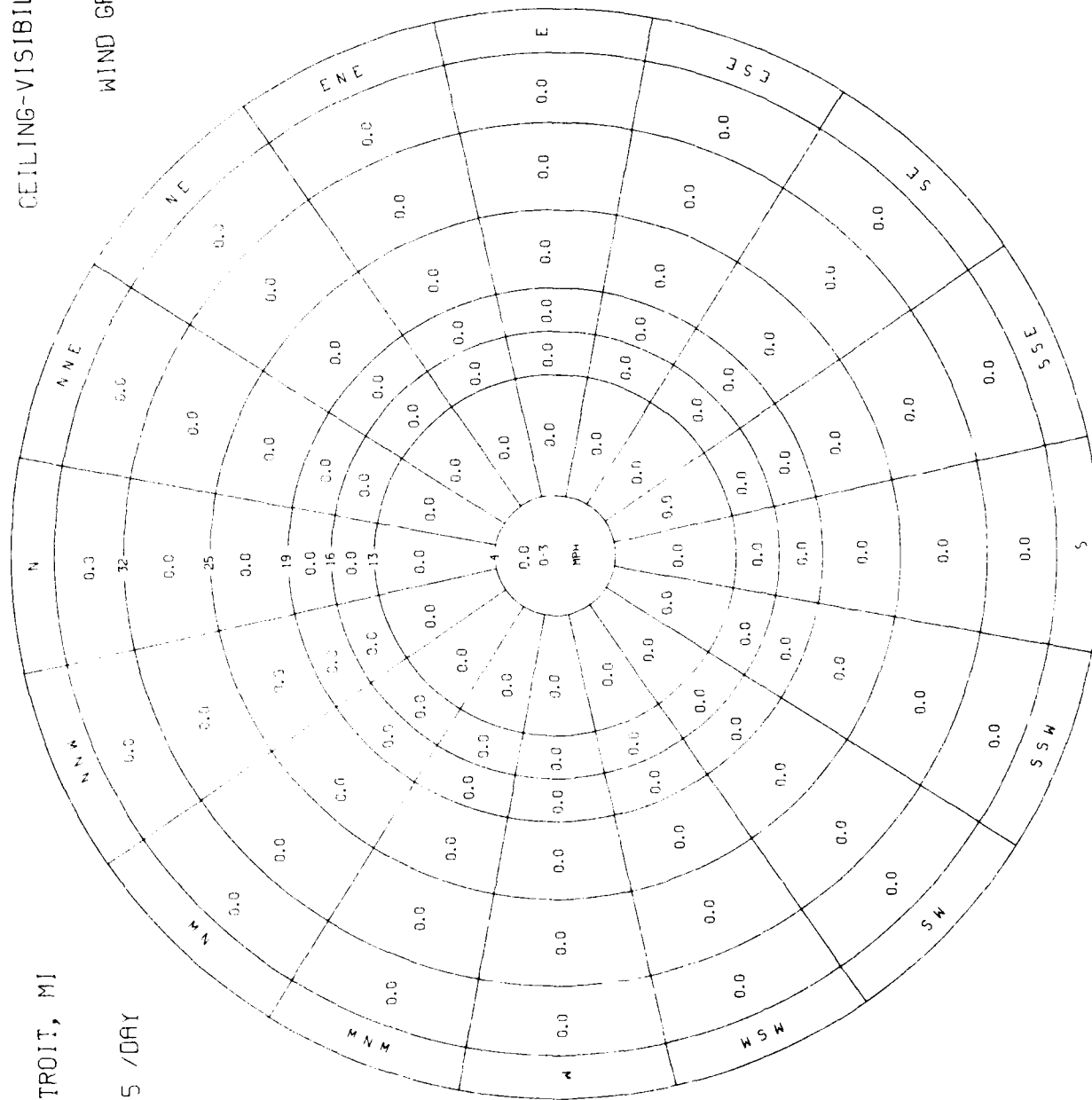
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.1	3.3	.0	.6	.0	.4	.0	.2	.0	.0	.0	.0	.1 4.5
NNE	.0	.2	.1	3.9	.0	.8	.0	1.0	.0	.0	.0	.0	.0	.0	.1 5.9
NE	.0	.6	.1	5.9	.0	.8	.0	.8	.0	1.0	.0	.0	.0	.0	.2 9.2
ENE	.0	.6	.1	5.7	.0	2.0	.0	.8	.0	.4	.0	.2	.0	.0	.2 9.8
E	.0	.6	.2	9.7	.0	1.8	.0	1.6	.0	.2	.0	.0	.0	.0	.2 13.5
ESE	.0	.2	.1	4.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.9
SE	.0	.0	.1	6.7	.0	.8	.0	.6	.0	.2	.0	.0	.0	.0	.2 8.4
SSE	.0	.0	.1	3.1	.0	.8	.0	.2	.0	.2	.0	.0	.0	.0	.1 4.3
S	.0	.2	.1	5.1	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1 6.1
SSW	.0	.6	.0	2.7	.0	.6	.0	.4	.0	.4	.0	.0	.0	.0	.1 4.7
SW	.0	.6	.1	5.3	.0	1.0	.0	.4	.0	.0	.0	.0	.0	.0	.1 7.3
WSW	.0	.2	.1	3.1	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1 3.7
W	.0	.4	.1	3.5	.0	.4	.0	.8	.0	.0	.0	.0	.0	.0	.1 5.1
WNW	.0	.6	.0	1.8	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1 3.1
NW	.0	.6	.0	1.2	.0	.6	.0	.2	.0	.8	.0	.0	.0	.0	.1 3.5
NNW	.0	.0	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
CALM	.1	4.5													.1 4.5
TOTAL	.2	10.0	1.2	65.5	.2	12.7	.1	8.2	.1	3.5	.0	.2	.0	.0	1.8 100

CEILING-VISIBILITY

WIND GRAPH

DTW DETROIT, MI

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: DTW DETROIT, MI

CLASS 5 / DAY

NO. OBS.: 123

STATION NUMBER: 94847

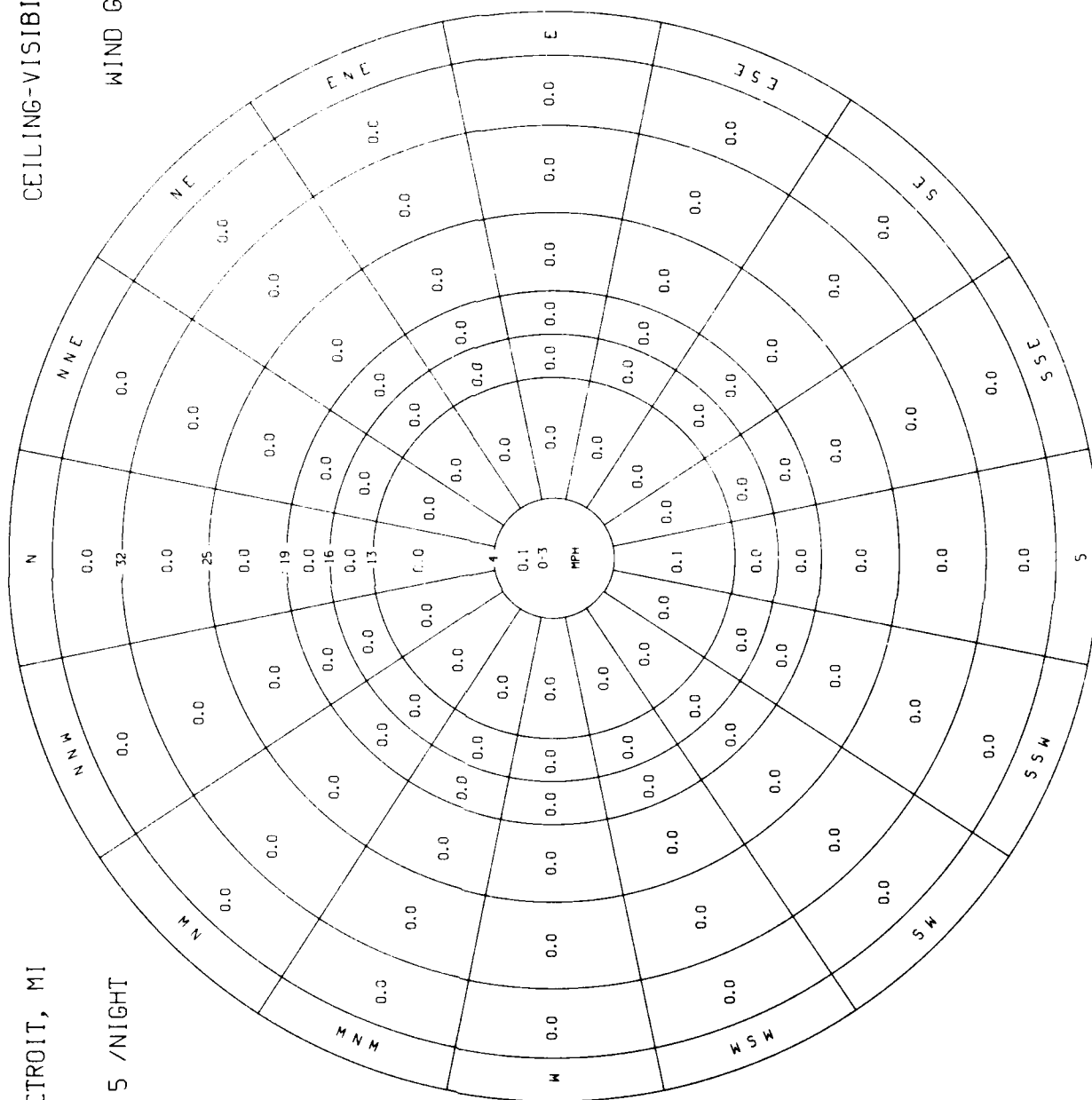
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0 1.6
NNE	.0	.0	.0	5.7	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0 7.3
NNE	.0	.8	.0	5.7	.0	2.4	.0	.8	.0	2.4	.0	.0	.0	.0	.0 12.2
ENE	.0	.8	.0	6.5	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0 9.8
E	.0	.8	.0	7.3	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0 10.6
ESE	.0	.0	.0	5.7	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.3
SE	.0	2.4	.0	5.7	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0 10.6
SSE	.0	.0	.0	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.3
S	.0	.8	.0	5.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.3
SSW	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
SW	.0	.8	.0	3.3	.0	.8	.0	.8	.0	.0	.0	.8	.0	.0	.0 6.5
WSW	.0	.8	.0	2.4	.0	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0 4.9
W	.0	.0	.0	.8	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0 2.4
WNW	.0	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0 1.6
NW	.0	.0	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.4
NNW	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0 2.4
CALM	.0	2.4													.0 2.4
TOTAL	.0	10.6	.2	62.6	.0	11.4	.0	8.1	.0	4.9	.0	2.4	.0	.0	.4 100
															9.4

CEILING-VISIBILITY

WIND GRAPH

DTW DETROIT, MI

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 5 / NIGHT

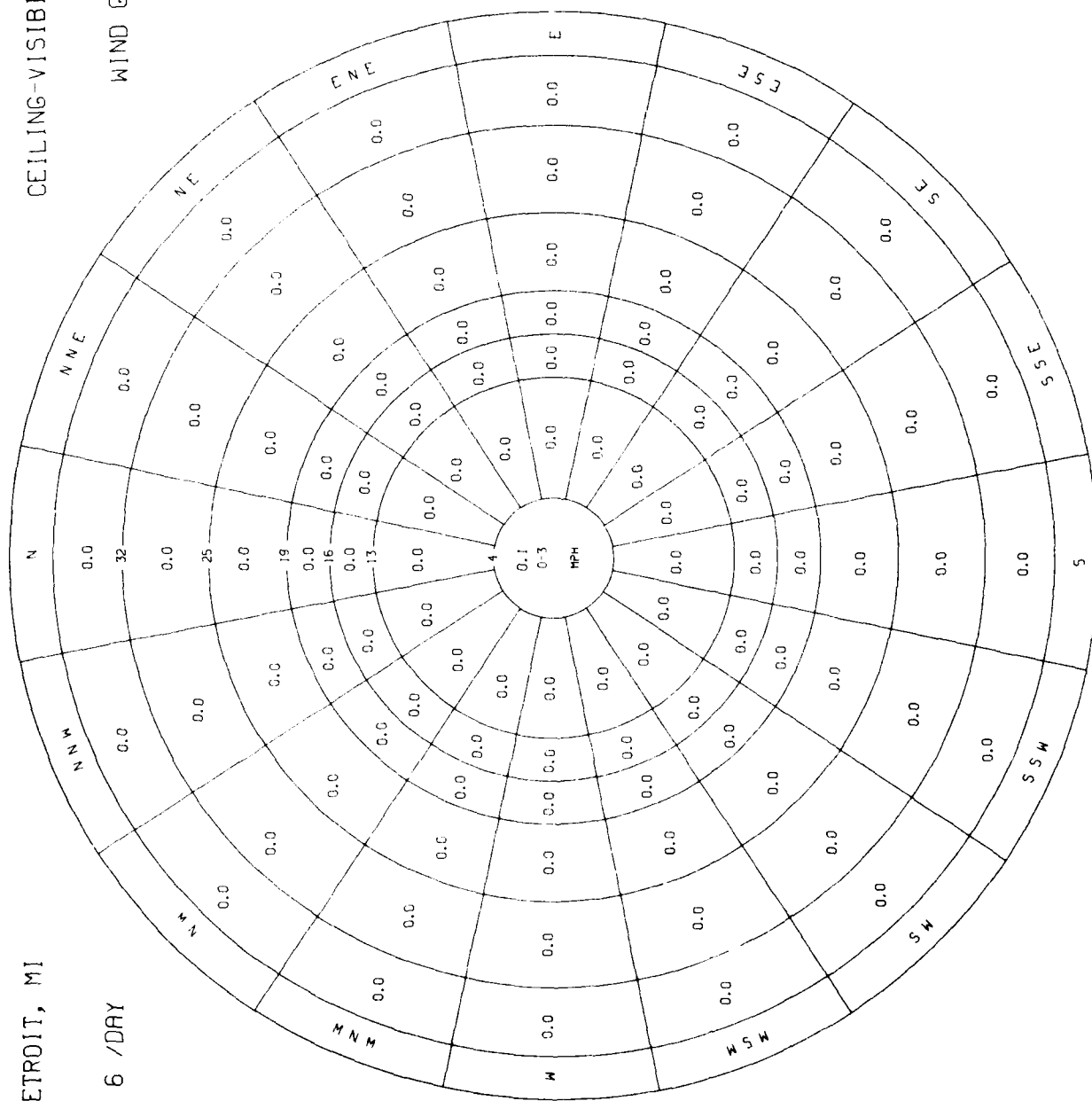
STATION NUMBER: 94847

NO. OBS.: 163

DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	3.1	.0	.0	.0	.6	.0	.6	.0	.6	.0	.0	.0 4.9
NNE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
NE	.0	.6	.0	6.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0 7.4
ENE	.0	1.8	.0	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.2
E	.0	1.8	.0	8.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.1 11.0
ESE	.0	2.5	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.1
SE	.0	.0	.0	4.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.5
SSE	.0	1.2	.0	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.2
S	.0	.6	.1	8.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.8
SSW	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.3
SW	.0	.6	.0	2.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.7
WSW	.0	.0	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.5
W	.0	.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.9
WNW	.0	1.2	.0	1.8	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0 3.7
NW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
NNW	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
CALM	.1	9.8													.1 9.8
TOTAL	.1	21.5	.4	70.6	.0	3.1	.0	1.2	.0	1.8	.0	.6	.0	1.2	.6 100
															7.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 6 / DAY

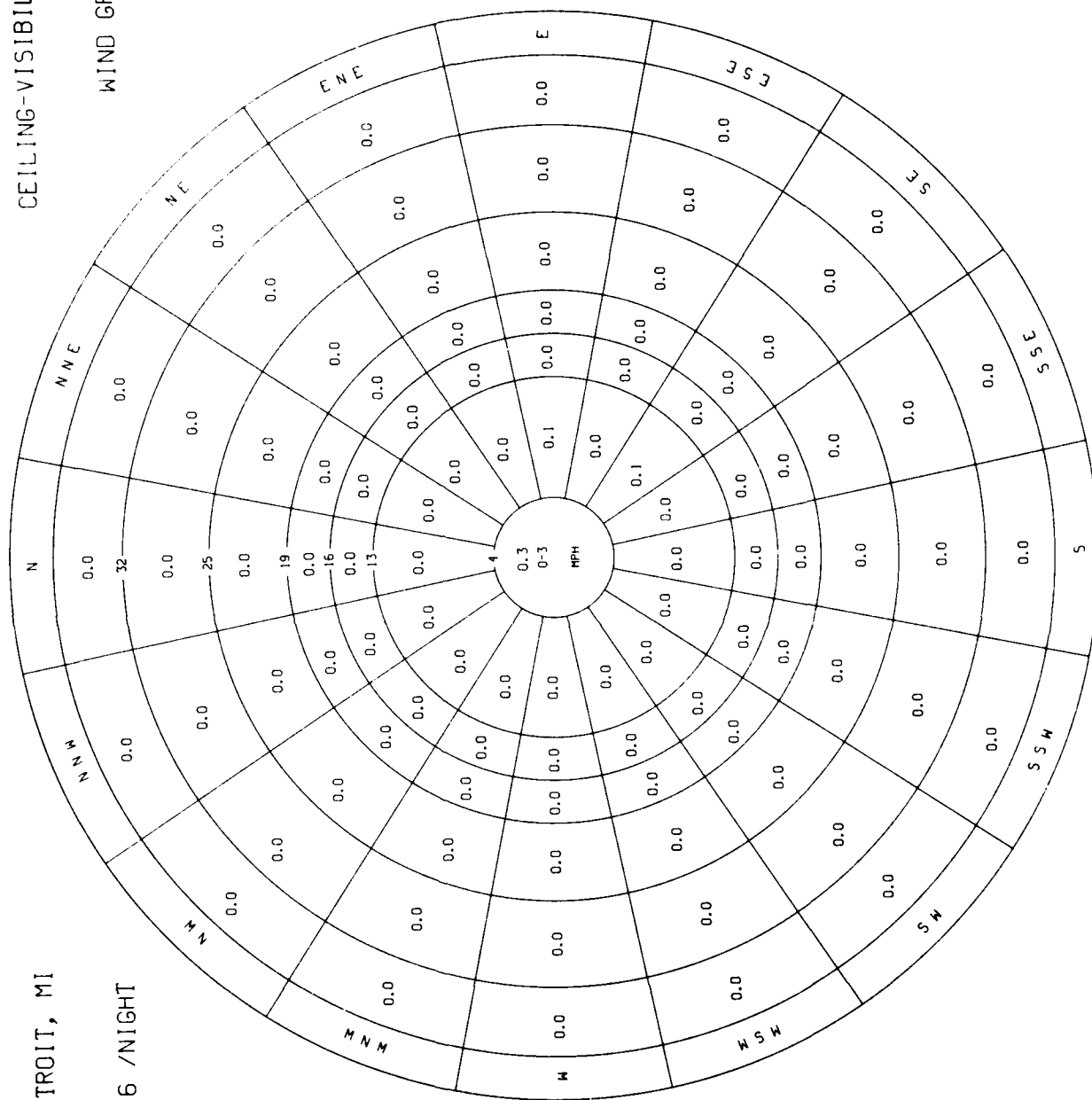
STATION NUMBER: 94847

NO. OBS.: 155

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	4.5	8.9
NNE	.0	.6	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	5.9
NE	.0	1.9	.0	3.9	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	6.5	7.3
ENE	.0	.0	.0	3.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	7.3
E	.0	.6	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	6.3
ESE	.0	1.3	.0	3.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	7.0
SE	.0	.6	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	6.7
SSE	.0	.6	.0	7.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	7.2
S	.0	.6	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	7.3
SSW	.0	.0	.0	5.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	7.2
SW	.0	1.3	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	6.6
WSW	.0	1.9	.0	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	4.5	7.0
W	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	3.2	9.4
WNW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	1.9	13.3
NW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.0
NNW	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.0
CALM	.1	16.8														.1	16.8	
TOTAL	.1	30.3	.3	63.9	.0	2.6	.0	.6	.0	1.3	.0	.6	.0	.6	.0	.6	5	5.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: DTW DETROIT, MI

CLASS 6 / NIGHT

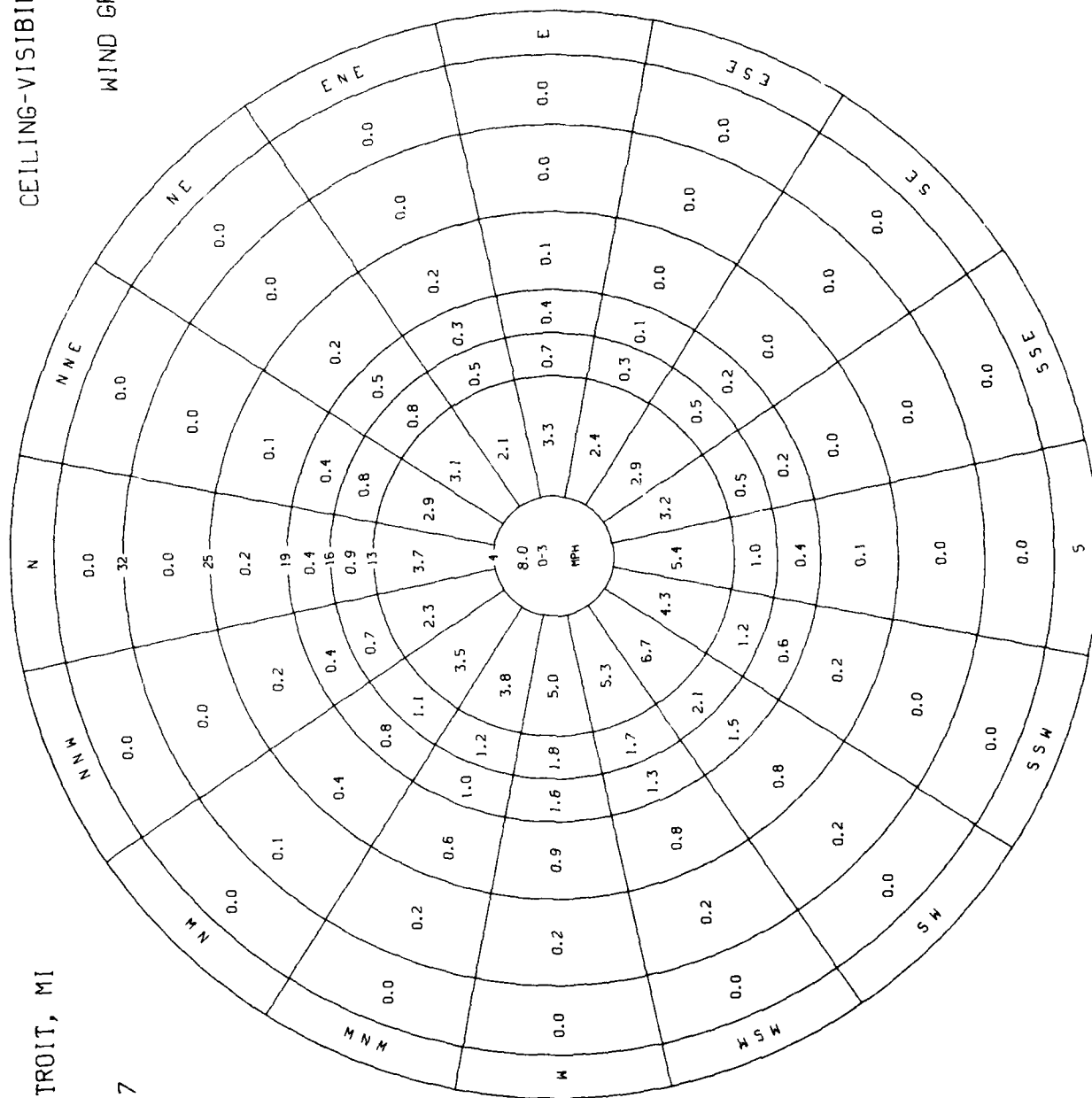
NO. OBS.: 196

STATION NUMBER: 94847

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.5
NNE	.0	.5	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.4
NE	.0	1.5	.0	4.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	5.9
ENE	.0	1.5	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.4
E	.0	3.1	.1	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	11.2	6.0
ESE	.0	.5	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.7
SE	.0	1.5	.1	7.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.2	5.9
SSE	.0	1.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.4
S	.0	4.1	.0	4.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.7	5.2
SSW	.0	1.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.5
SW	.0	2.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.7	6.2
WSW	.0	2.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.7	5.5
W	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.0
WNW	.0	1.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	5.1
NW	.0	2.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.6
NNW	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.7
CALM	.1	18.4													.1	18.4	
TOTAL	.3	42.3	.4	56.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	100	4.6

DTW DETROIT, MI

CLASS 7

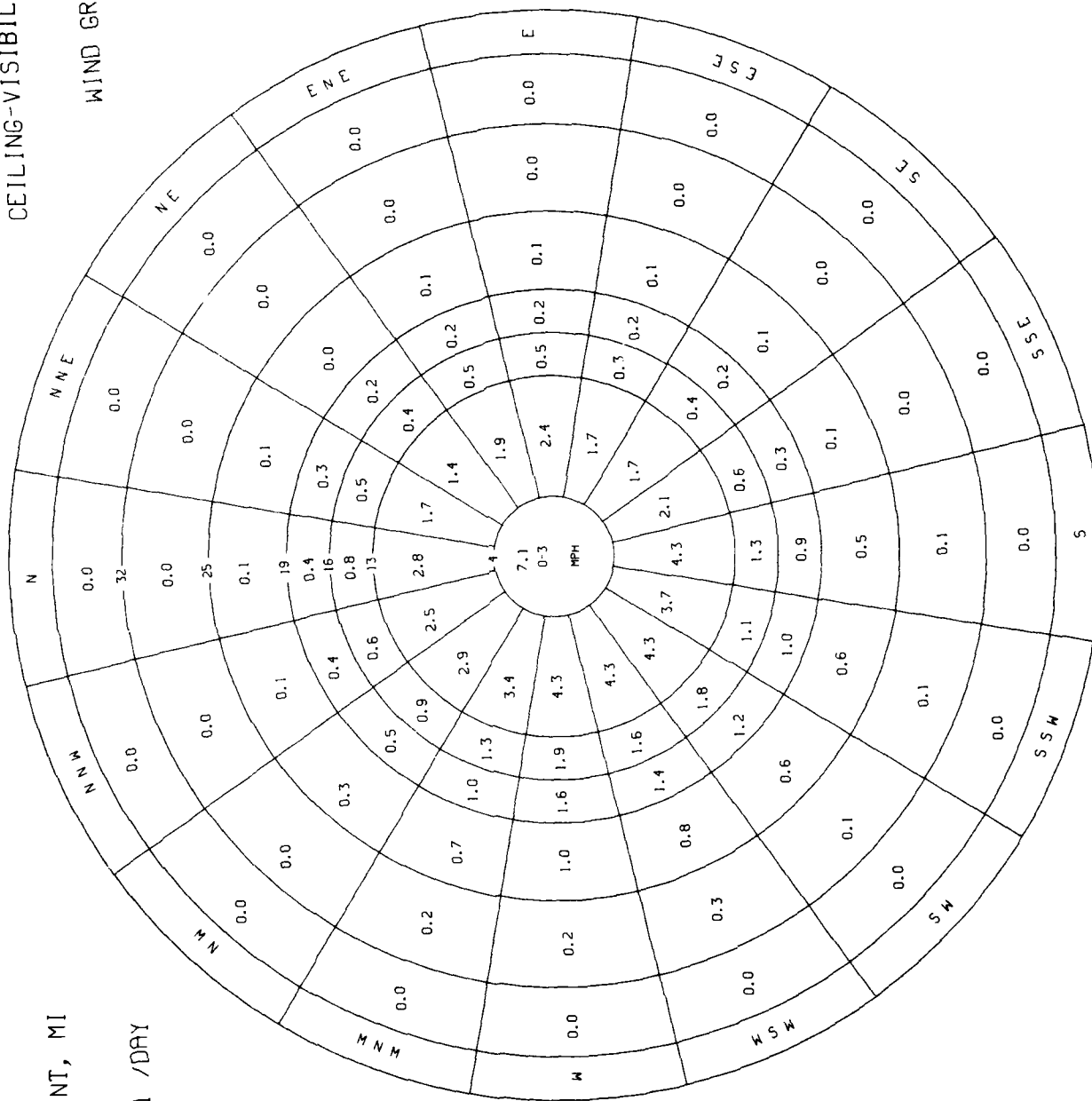


CEILING-VISIBILITY

WIND GRAPH

FNT FLINT, MI

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

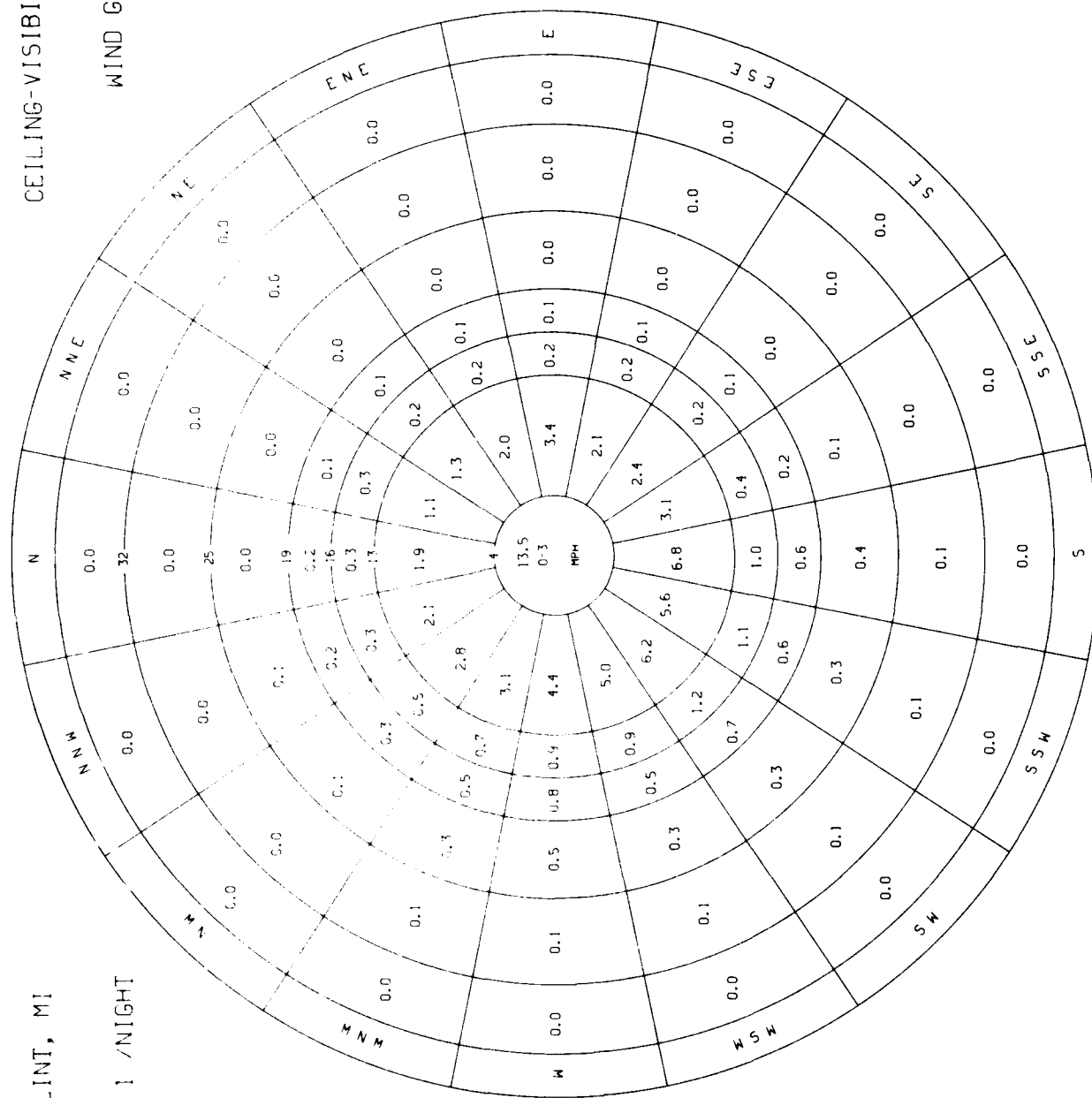
CLASS 1 / DAY

STATION NUMBER: 14826

NO. OBS.: 39768

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.3	.4	2.8	3.4	.8	1.0	.4	.4	.1	.1	.0	.0	.0	.0	4.4	5.2	10.0
NNE	.2	.2	1.7	2.1	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	2.9	3.4	10.4
NE	.1	.2	1.4	1.7	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	2.2	2.6	10.0
ENE	.2	.2	1.9	2.3	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.4	10.0
E	.3	.4	2.4	2.9	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	3.5	4.2	9.1
ESE	.3	.3	1.7	2.1	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.6	3.1	9.4
SE	.3	.4	1.7	2.1	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.7	3.2	9.4
SSE	.3	.3	2.1	2.5	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	3.3	4.0	10.0
S	.5	.6	4.3	5.1	1.3	1.6	.9	1.1	.5	.6	.1	.1	.0	.0	7.7	9.2	11.1
SSW	.3	.4	3.7	4.4	1.1	1.4	1.0	1.2	.6	.7	.1	.1	.0	.0	6.9	8.2	11.9
SW	.5	.5	4.3	5.2	1.8	2.1	1.2	1.4	.6	.8	.1	.2	.0	.0	8.5	10.2	11.8
WSW	.4	.5	4.3	5.2	1.6	2.0	1.4	1.6	.8	.9	.3	.3	.0	.1	8.8	10.5	12.4
W	.5	.5	4.3	5.1	1.9	2.3	1.6	1.9	1.0	1.2	.2	.3	.0	.0	9.5	11.4	12.7
WNW	.3	.3	3.4	4.0	1.3	1.5	1.0	1.3	.7	.8	.2	.2	.0	.0	6.8	8.2	12.5
NW	.4	.4	2.9	3.5	.9	1.0	.5	.7	.3	.4	.0	.0	.0	.0	5.1	6.0	10.8
NNW	.2	.3	2.5	3.0	.6	.7	.4	.5	.1	.2	.0	.0	.0	.0	3.9	4.7	10.4
CALM	2.0	2.4													2.0	2.4	
TOTAL	7.1	8.4	45.6	54.5	14.5	17.3	10.1	12.0	5.2	6.3	1.1	1.3	.2	.2	83.7	100	11.0

CEILING-VISIBILITY
WIND GRAPH



FNT FLINT, MI

CLASS 1 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 14826

NO. OBS.: 33704

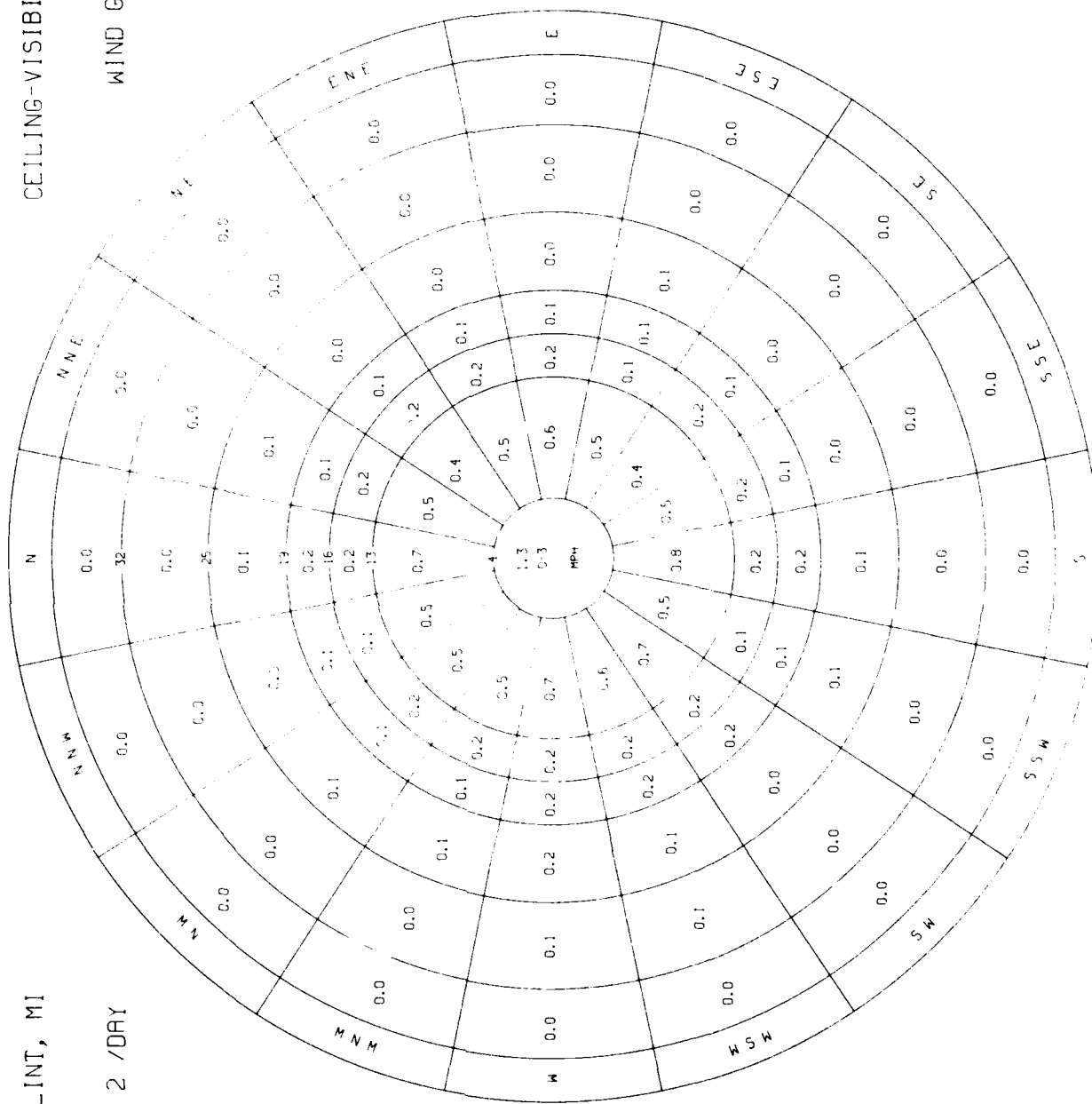
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.4	.5	1.9	2.3	.3	.3	.2	.2	.0	.1	.0	.0	.0	.0	2.8	3.3	8.4
NNE	.2	.2	1.1	1.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.6	1.9	9.2
NENE	.2	.3	1.3	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.8	2.1	8.6
ENE	.3	.4	2.0	2.3	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.2	8.3
E	.7	.8	3.4	4.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.5	5.3	7.3
ESE	.5	.6	2.1	2.6	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.0	3.6	7.6
SE	.7	.9	2.4	2.8	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	3.5	4.2	7.4
SSE	.6	.7	3.1	3.7	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.5	5.3	8.3
S	1.3	1.5	6.8	8.1	1.0	1.2	.6	.8	.4	.4	.1	.1	.0	.0	10.2	12.1	9.0
SSW	.8	.9	5.6	6.7	1.1	1.3	.6	.7	.3	.4	.1	.1	.0	.0	8.5	10.1	9.5
SW	1.0	1.2	6.2	7.4	1.2	1.4	.7	.9	.3	.4	.1	.1	.0	.0	9.5	11.3	9.4
WSW	.7	.8	5.0	5.9	.9	1.0	.5	.6	.3	.4	.1	.1	.0	.1	7.5	9.0	9.8
W	.7	.8	4.4	5.3	.9	1.1	.8	1.0	.5	.6	.1	.1	.0	.0	7.4	8.8	10.5
WNW	.4	.4	3.1	3.7	.7	.9	.5	.6	.3	.3	.1	.1	.0	.0	5.1	6.1	10.6
NW	.5	.5	2.8	3.3	.5	.6	.3	.3	.1	.2	.0	.0	.0	.0	4.1	4.9	9.1
NNW	.3	.3	2.1	2.5	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	3.0	3.6	9.2
CALM	4.4	5.2													4.4	5.2	
TOTAL	13.5	16.1	53.3	63.4	8.6	10.2	5.3	6.3	2.6	3.1	.6	.7	.1	.2	84.0	100	8.7

CEILING-VISIBILITY

WIND GRAPH

FNT FLINT, MI

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: FNT FLINT, MI

CLASS 2 / DAY

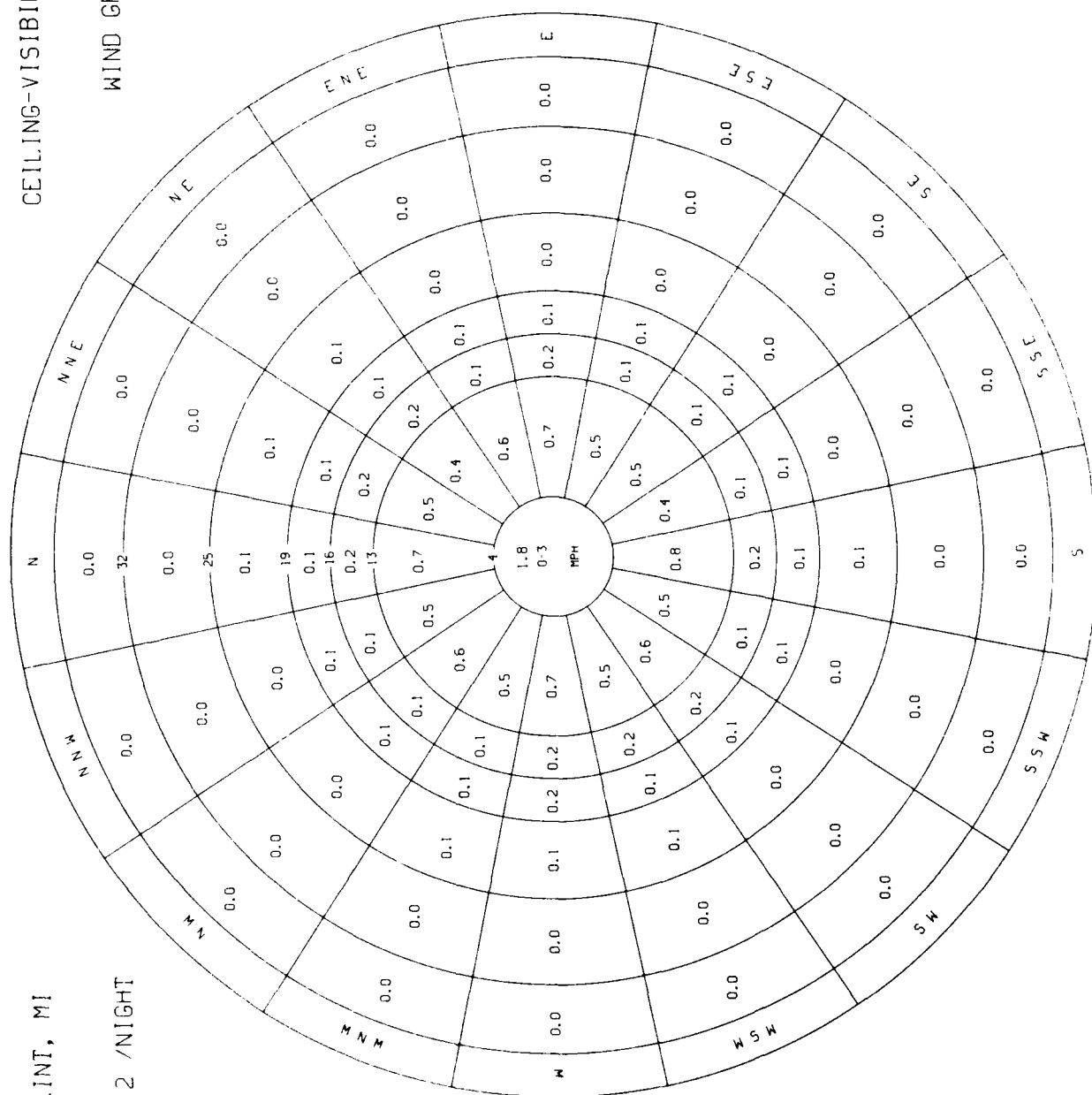
NO. OBS.: 7760

STATION NUMBER: 14826

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.4	.7	4.3	.2	1.5	.2	1.2	.1	.5	.0	.1	.0	.0	1.3	8.0	11.7
NNE	.0	.1	.5	3.0	.2	1.0	.1	.7	.1	.4	.0	.1	.0	.0	.9	5.3	12.1
NE	.0	.2	.4	2.5	.2	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.7	4.5	11.2
ENE	.0	.2	.5	3.0	.2	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.8	5.1	11.0
E	.1	.5	.6	3.6	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.9	5.8	10.1
ESE	.1	.4	.5	2.9	.1	.9	.1	.5	.1	.3	.0	.0	.0	.0	.8	5.0	10.5
SE	.1	.4	.4	2.7	.2	.9	.1	.6	.0	.2	.0	.0	.0	.0	.8	4.8	10.5
SSE	.1	.3	.5	2.8	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.8	4.8	10.8
S	.1	.6	.8	4.8	.2	1.2	.2	1.0	.1	.6	.0	.1	.0	.0	1.4	8.3	10.9
SSW	.1	.4	.5	3.4	.1	.9	.1	.5	.1	.4	.0	.0	.0	.0	.9	5.6	10.8
SW	.1	.5	.7	4.0	.2	1.0	.2	.9	.0	.3	.0	.1	.0	.1	1.1	6.9	11.2
WSW	.1	.4	.6	3.8	.2	1.4	.2	1.1	.1	.6	.1	.3	.0	.1	1.3	7.7	12.6
W	.1	.4	.7	4.0	.2	1.4	.2	1.5	.2	1.2	.1	.4	.0	.1	1.5	9.0	13.1
WNW	.0	.3	.5	2.8	.2	1.3	.1	.9	.1	.6	.0	.2	.0	.0	1.0	6.0	12.5
NW	.1	.3	.5	2.9	.2	1.0	.1	.7	.1	.4	.0	.1	.0	.0	.9	5.4	11.6
NNW	.0	.2	.5	3.3	.1	.9	.1	.6	.0	.3	.0	.1	.0	.0	.9	5.4	11.0
CALM	.4	2.4													.4	2.4	
TOTAL	1.3	8.1	8.8	53.7	2.8	17.4	2.0	12.3	1.1	6.7	.3	1.6	.0	.3	16.3	100	11.2

CEILING-VISIBILITY

WIND GRAPH



FNT FLINT, MI

CLASS 2 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FORT FLINT, MO

PERIOD: 1949-1978

CLASS 2 / NIGHT

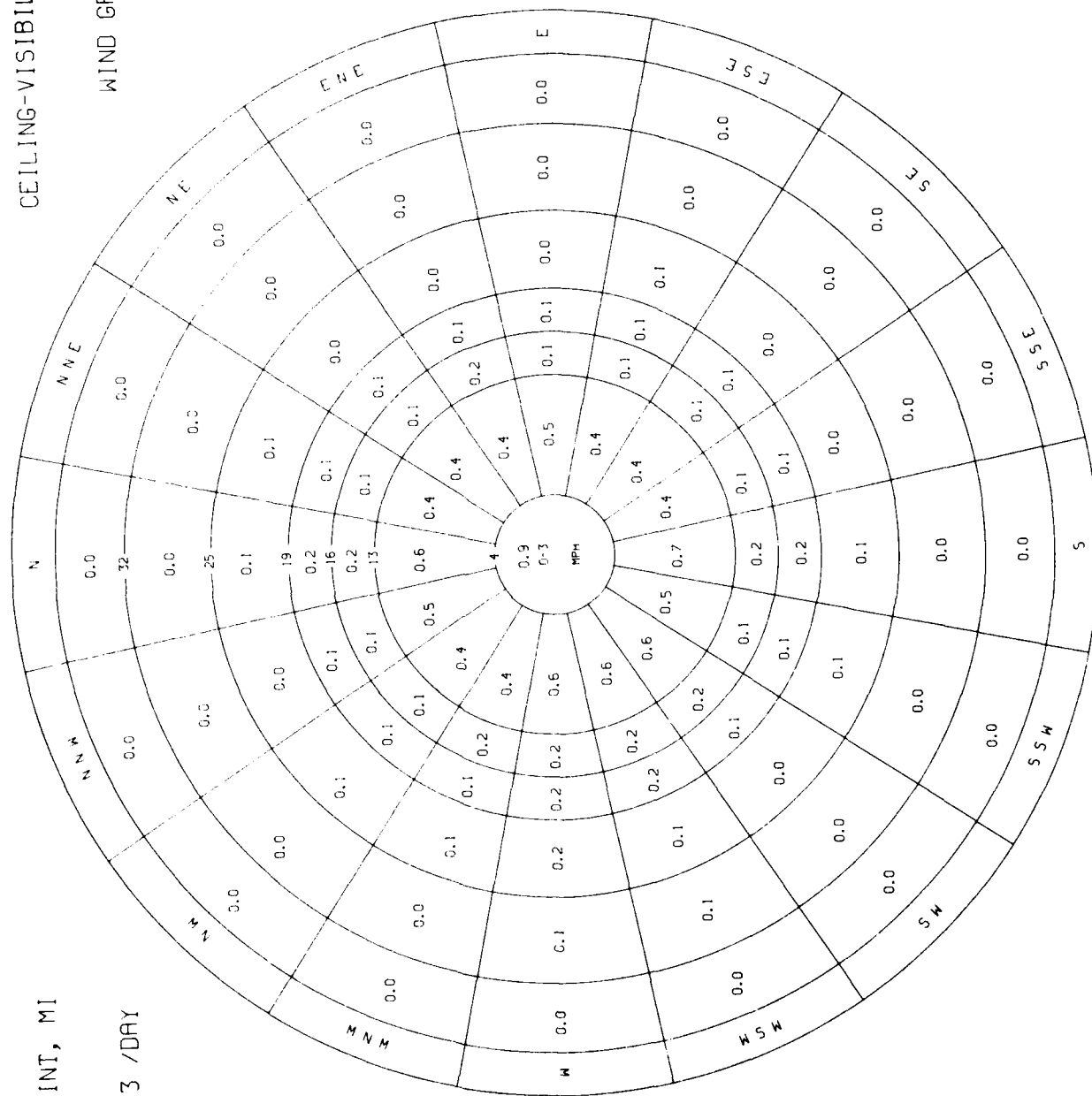
STATION NUMBER: 14225

NO. OBS.: 6404

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.7	4.5	.2	1.4	.1	.9	.1	.4	.0	.0	.0	.0	1.2	7.5	11.1
NNE	.0	.3	.5	2.9	.2	1.1	.1	.9	.1	.4	.0	.1	.0	.0	.9	5.6	12.0
NE	.0	.3	.4	2.8	.2	1.0	.1	.7	.1	.3	.0	.0	.0	.0	.8	5.1	11.2
ENE	.1	.4	.6	3.5	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.9	5.7	10.5
E	.1	.6	.7	4.4	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	1.1	6.7	9.6
ESE	.1	.5	.5	2.9	.1	.7	.1	.4	.0	.2	.0	.1	.0	.0	.8	4.8	10.3
SE	.1	.7	.5	3.1	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.7	4.5	9.5
SSE	.1	.5	.4	2.8	.1	.7	.1	.3	.0	.1	.0	.0	.0	.0	.7	4.5	9.5
S	.1	.7	.8	4.7	.2	1.1	.1	.8	.1	.6	.0	.1	.0	.0	1.3	8.0	10.4
SSW	.1	.4	.5	3.0	.1	.8	.1	.5	.0	.2	.0	.1	.0	.0	.8	5.0	10.6
SW	.1	.6	.6	3.8	.2	1.1	.1	.8	.0	.3	.0	.1	.0	.1	1.1	6.8	10.8
WSW	.1	.4	.5	3.4	.2	1.2	.1	.9	.1	.4	.0	.2	.0	.1	1.1	6.6	11.9
W	.1	.6	.7	4.5	.2	1.3	.2	1.1	.1	.7	.0	.3	.0	.0	1.4	8.5	11.9
WNW	.0	.3	.5	2.9	.1	.9	.1	.8	.1	.4	.0	.2	.0	.0	.9	5.5	12.4
NW	.1	.5	.6	3.6	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.9	5.8	10.3
NNW	.0	.3	.5	3.0	.1	.7	.1	.6	.0	.2	.0	.1	.0	.0	.8	4.9	10.9
CALM	.6	4.0													.6	4.0	
TOTAL	1.8	11.6	8.9	55.6	2.5	15.4	1.7	10.8	.8	5.1	.2	1.2	.0	.3	16.0	100	10.4

CEILING-VISIBILITY

WIND GRAPH



FNT FLINT, MI

CLASS 3 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 3 / DAY

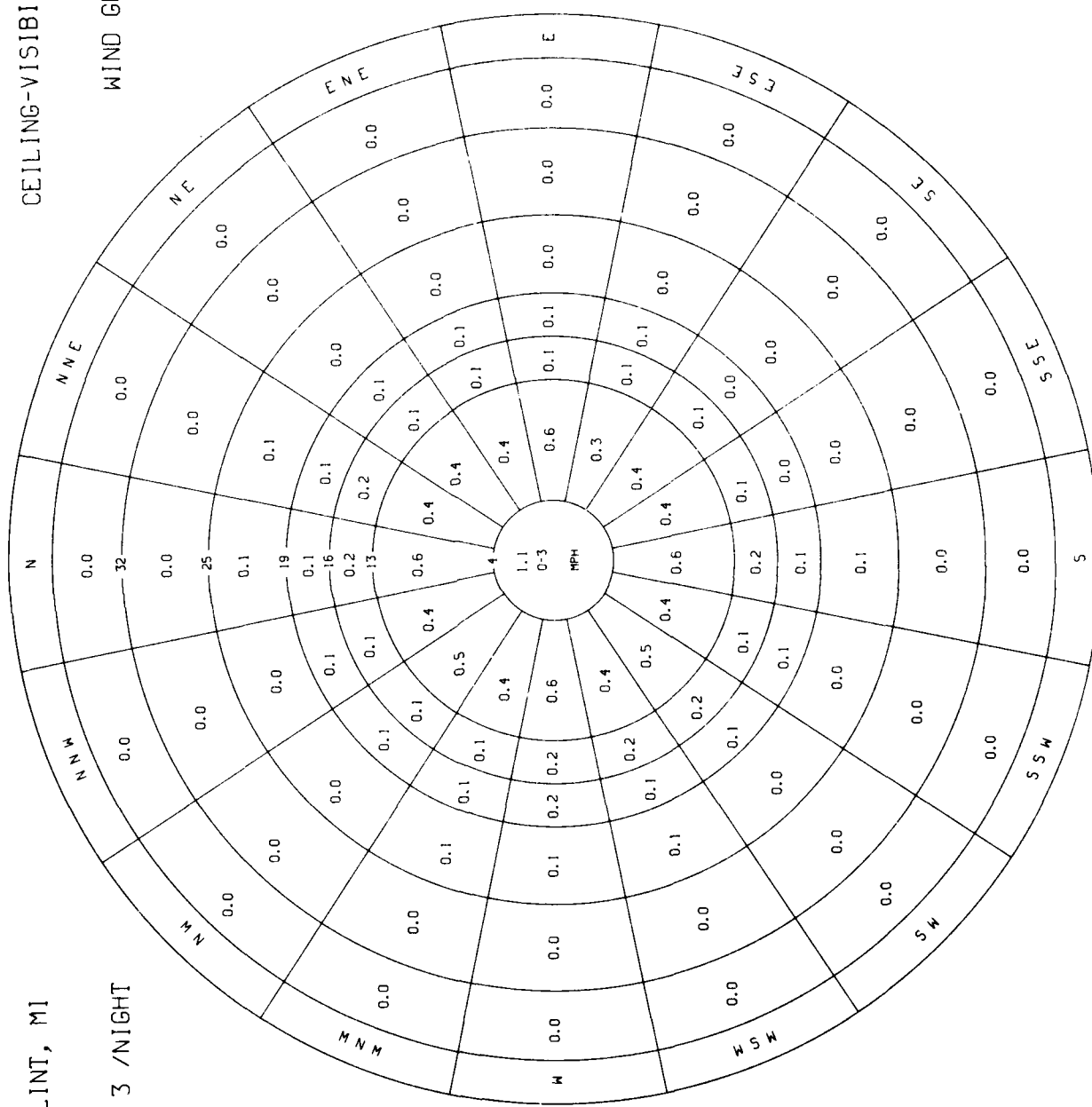
STATION NUMBER: 14826

NO. OBS.: 6769

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.1	.4	.6	4.2	.2	1.5	.2	1.3	.1	.5	.0	.1	.0	.0	1.1	7.9
NNE	.0	.1	.4	3.0	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.8	5.3
NNE	.0	.2	.4	2.5	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.6	4.4
ENE	.0	.2	.4	3.1	.2	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.7	5.1
E	.1	.5	.5	3.4	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.8	5.5
ESE	.1	.4	.4	2.8	.1	.9	.1	.5	.1	.4	.0	.0	.0	.0	.7	5.0
SE	.1	.4	.4	2.7	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.7	4.8
SSE	.0	.3	.4	2.6	.1	1.0	.1	.5	.0	.3	.0	.0	.0	.0	.7	4.8
S	.1	.5	.7	4.8	.2	1.3	.2	1.2	.1	.6	.0	.1	.0	.0	1.2	8.5
SSW	.0	.2	.5	3.3	.1	.9	.1	.5	.1	.4	.0	.0	.0	.0	.8	5.5
SW	.1	.4	.6	4.1	.2	1.1	.1	1.0	.0	.3	.0	.2	.0	.0	1.0	7.1
WSW	.0	.3	.6	3.9	.2	1.6	.2	1.2	.1	.6	.1	.4	.0	.1	1.2	8.1
W	.1	.4	.6	4.0	.2	1.5	.2	1.7	.2	1.3	.1	.4	.0	.0	1.3	9.3
WNW	.0	.2	.4	2.9	.2	1.4	.1	.9	.1	.6	.0	.2	.0	.0	.9	6.2
NW	.0	.3	.4	3.0	.1	1.0	.1	.7	.1	.4	.0	.1	.0	.0	.8	5.5
NNW	.0	.2	.5	3.2	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.2
CALM	.3	1.8													.3	1.8
TOTAL	.9	6.6	7.6	53.3	2.6	18.2	1.9	13.2	1.0	6.9	.2	1.6	.0	.2	14.2	100

CEILING-VISIBILITY

WIND GRAPH



FNT FLINT, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 3 / NIGHT

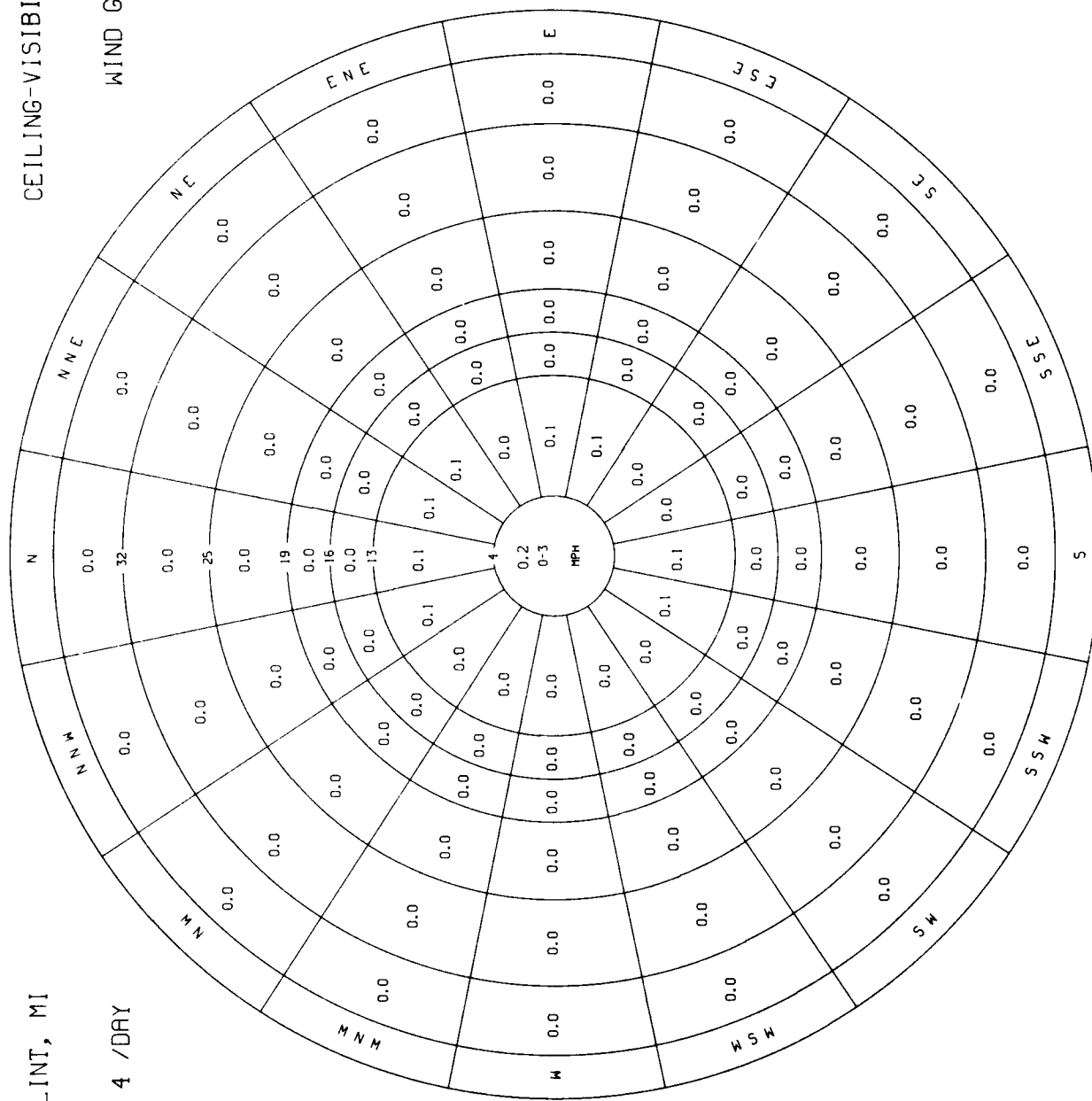
STATION NUMBER: 14826

NO. OBS.: 5253

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.0	.3	.6	4.3	.2	1.5	.1	1.0	.1	.4	.0	.0	.0	1.0	7.6	11.4	
NNE	.0	.2	.4	2.8	.2	1.2	.1	1.0	.1	.4	.0	.1	.0	.8	5.8	12.3	
NE	.0	.3	.4	2.8	.1	1.1	.1	.7	.0	.2	.0	.0	.0	.7	5.1	11.3	
ENE	.0	.4	.4	3.3	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.7	5.5	10.8	
E	.1	.4	.6	4.3	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.9	6.6	10.0	
ESE	.1	.4	.3	2.6	.1	.8	.1	.5	.0	.3	.0	.1	.0	.6	4.6	11.0	
SE	.1	.5	.4	3.0	.1	.7	.0	.4	.0	.1	.0	.0	.0	.6	4.7	9.9	
SSE	.0	.4	.4	2.7	.1	.9	.0	.4	.0	.1	.0	.0	.0	.6	4.4	10.0	
S	.1	.7	.6	4.5	.2	1.3	.1	.9	.1	.7	.0	.1	.0	1.1	8.1	10.9	
SSW	.0	.3	.4	3.0	.1	.9	.1	.6	.0	.2	.0	.1	.0	.7	5.2	11.1	
SW	.1	.5	.5	4.0	.2	1.3	.1	1.0	.0	.3	.0	.1	.0	1.0	7.3	11.3	
WSW	.0	.3	.4	3.4	.2	1.4	.1	1.1	.1	.5	.0	.2	.0	.9	7.1	12.6	
W	.0	.4	.6	4.4	.2	1.5	.2	1.3	.1	.9	.0	.3	.0	1.2	8.8	12.7	
WNW	.0	.2	.4	2.9	.1	1.0	.1	.9	.1	.5	.0	.2	.0	.8	5.7	12.9	
NW	.0	.3	.5	3.7	.1	1.0	.1	.7	.0	.2	.0	.1	.0	.8	6.0	10.9	
NNW	.0	.3	.4	3.0	.1	.9	.1	.7	.0	.2	.0	.1	.0	.7	5.1	11.0	
CALM	.3	2.4												.3	2.4		
TOTAL	1.1	8.2	7.2	54.7	2.3	17.5	1.6	12.4	.7	5.5	.2	1.4	.0	.3	13.1	100	11.1

FNT FLINT, MI

CLASS 4 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: FNT FLINT, MI

CLASS 4 / DAY

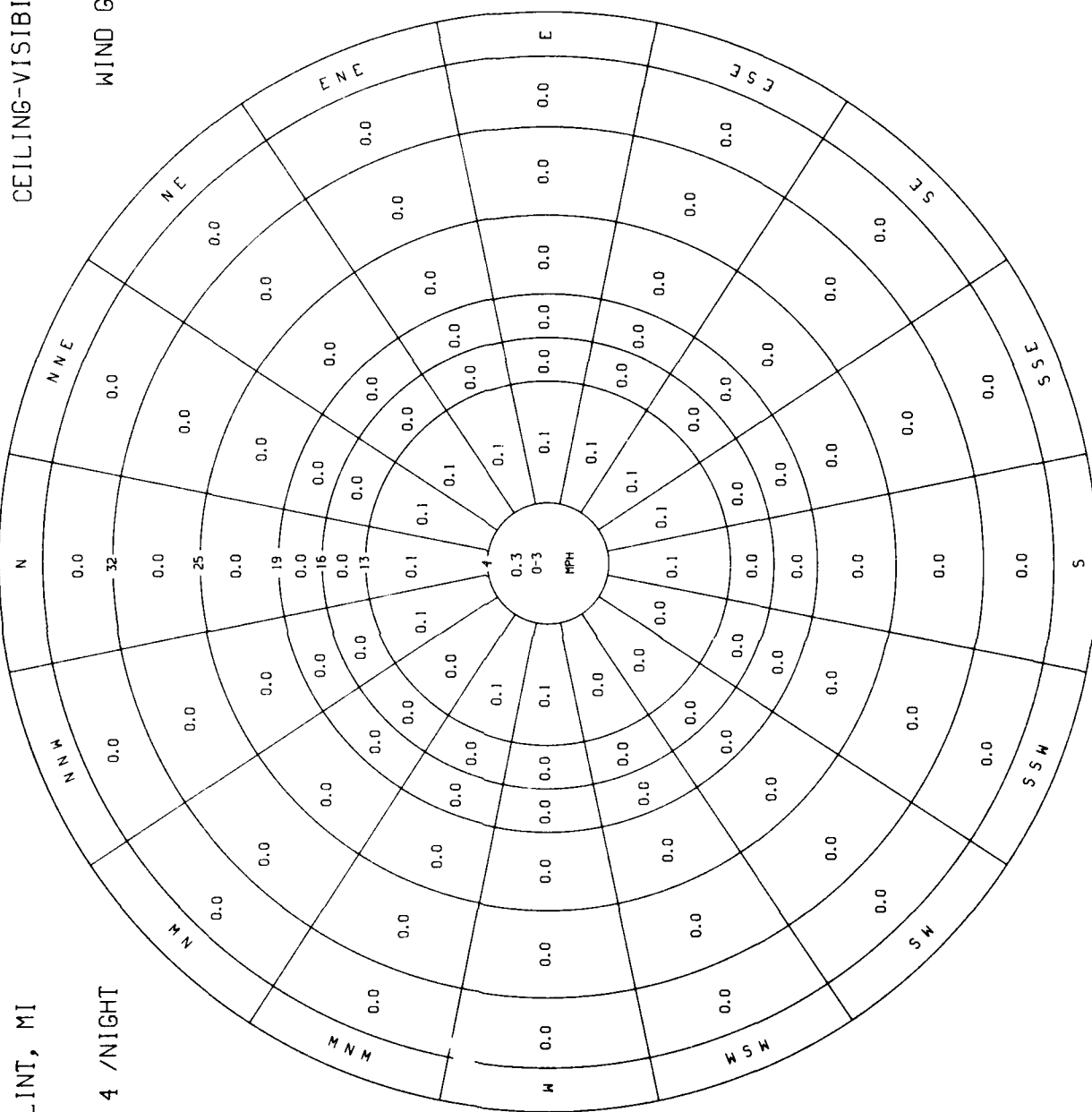
NO. OBS.: 679

STATION NUMBER: 14826

DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.1	6.2	.0	1.8	.0	.7	.0	.7	.0	.3	.0	.0	.1 10.2
NNE	.0	.0	.1	3.8	.0	1.6	.0	.9	.0	.4	.0	.1	.0	.0	.1 6.9
NNE	.0	.6	.1	4.1	.0	1.0	.0	.9	.0	.1	.0	.0	.0	.0	.1 6.8
ENE	.0	.6	.0	2.8	.0	1.5	.0	.6	.0	.3	.0	.0	.0	.0	.1 5.7
E	.0	.9	.1	5.6	.0	1.2	.0	.6	.0	.1	.0	.0	.0	.0	.1 8.4
ESE	.0	.7	.1	3.5	.0	.9	.0	.4	.0	.1	.0	.0	.0	.0	.1 5.7
SE	.0	.3	.0	2.4	.0	1.0	.0	.0	.0	.3	.0	.0	.0	.0	.1 4.0
SSE	.0	.1	.0	3.4	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.1 5.2
S	.0	.3	.1	4.3	.0	.9	.0	.0	.0	.1	.0	.1	.0	.0	.1 5.7
SSW	.0	1.0	.1	3.5	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1 5.4
SW	.0	.9	.0	3.2	.0	.4	.0	.7	.0	.4	.0	.0	.0	.0	.1 5.7
WSW	.0	.6	.0	3.1	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.1 5.0
W	.0	.3	.0	3.1	.0	.6	.0	.3	.0	.9	.0	.1	.0	.1	.1 5.4
WNW	.0	.4	.0	2.5	.0	.7	.0	.7	.0	.3	.0	.1	.0	.0	.1 4.9
NW	.0	.4	.0	2.5	.0	.7	.0	.3	.0	.6	.0	.3	.0	.0	.1 4.9
NNW	.0	.0	.1	4.1	.0	.7	.0	.7	.0	.6	.0	.4	.0	.0	.1 6.6
CALM	.0	3.4													.0 3.4
TOTAL	.2	11.0	.8	58.2	.2	14.7	.1	8.1	.1	6.0	.0	1.6	.0	.3	1.4 10.4

CEILING-VISIBILITY

WIND GRAPH



FNT FLINT, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 4 / NIGHT

STATION NUMBER: 14826

NO. OBS.: 688

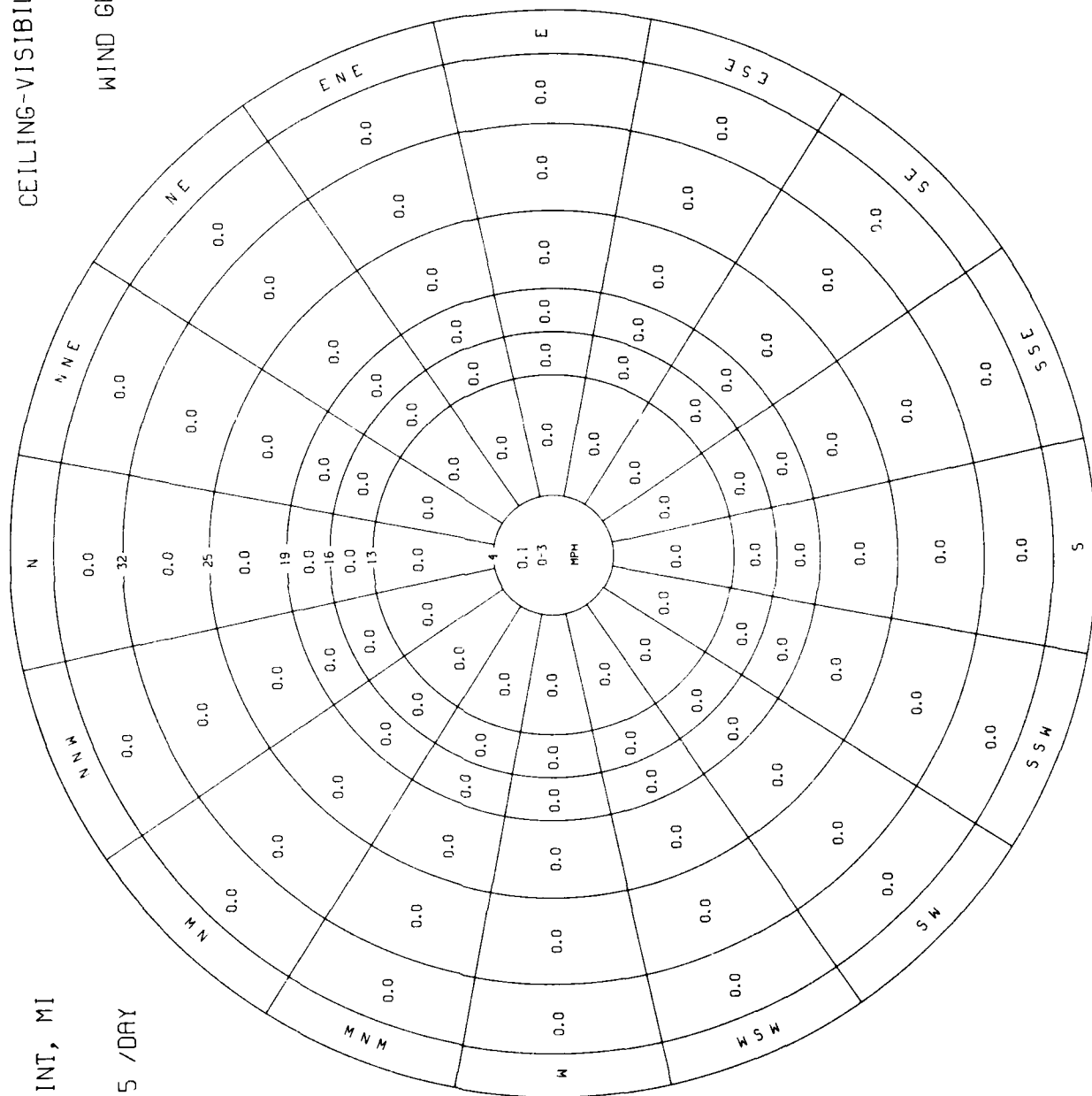
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.1	6.8	.0	.7	.0	.4	.0	.6	.0	.0	.0	.0	.2 9.0 9.8
NNE	.0	.9	.1	3.8	.0	.4	.0	.4	.0	.7	.0	.0	.0	.0	.1 6.3 10.0
NE	.0	.3	.1	3.8	.0	.7	.0	.3	.0	1.0	.0	.0	.0	.0	.1 6.1 11.4
ENE	.0	.4	.1	4.9	.0	1.2	.0	.7	.0	.3	.0	.0	.0	.0	.1 7.6 10.4
E	.0	.6	.1	5.4	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.1 7.8 9.1
ESE	.0	.7	.1	5.1	.0	.6	.0	.1	.0	.1	.0	.0	.0	.0	.1 6.7 8.8
SE	.0	1.0	.1	4.2	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.1 5.7 7.9
SSE	.0	.7	.1	4.1	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1 5.2 8.2
S	.0	.4	.1	5.7	.0	.4	.0	.4	.0	.3	.0	.0	.0	.0	.1 7.3 8.8
SSW	.0	.9	.0	2.3	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.1 3.9 8.2
SW	.0	.6	.0	2.6	.0	.1	.0	.1	.0	.1	.0	.1	.0	.0	.1 3.8 8.7
WSW	.0	.4	.0	2.8	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.1 3.6 7.5
W	.0	.9	.1	4.5	.0	.4	.0	.3	.0	.1	.0	.1	.0	.0	.1 6.4 8.8
WNW	.0	.3	.1	3.5	.0	.3	.0	.3	.0	.4	.0	.3	.0	.0	.1 5.1 10.9
NW	.0	.3	.0	2.9	.0	.4	.0	.0	.0	.3	.0	.0	.0	.0	.1 3.9 9.2
NNW	.0	.1	.1	3.1	.0	.3	.0	.3	.0	.3	.0	.1	.0	.0	.1 4.2 10.9
CALM	.1	7.4													.1 7.4
TOTAL	.3	16.4	1.1	65.4	.1	8.4	.1	4.2	.1	4.7	.0	.9	.0	.0	1.7 100 8.7

CEILING-VISIBILITY

WIND GRAPH

FNT FLINT, MI

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

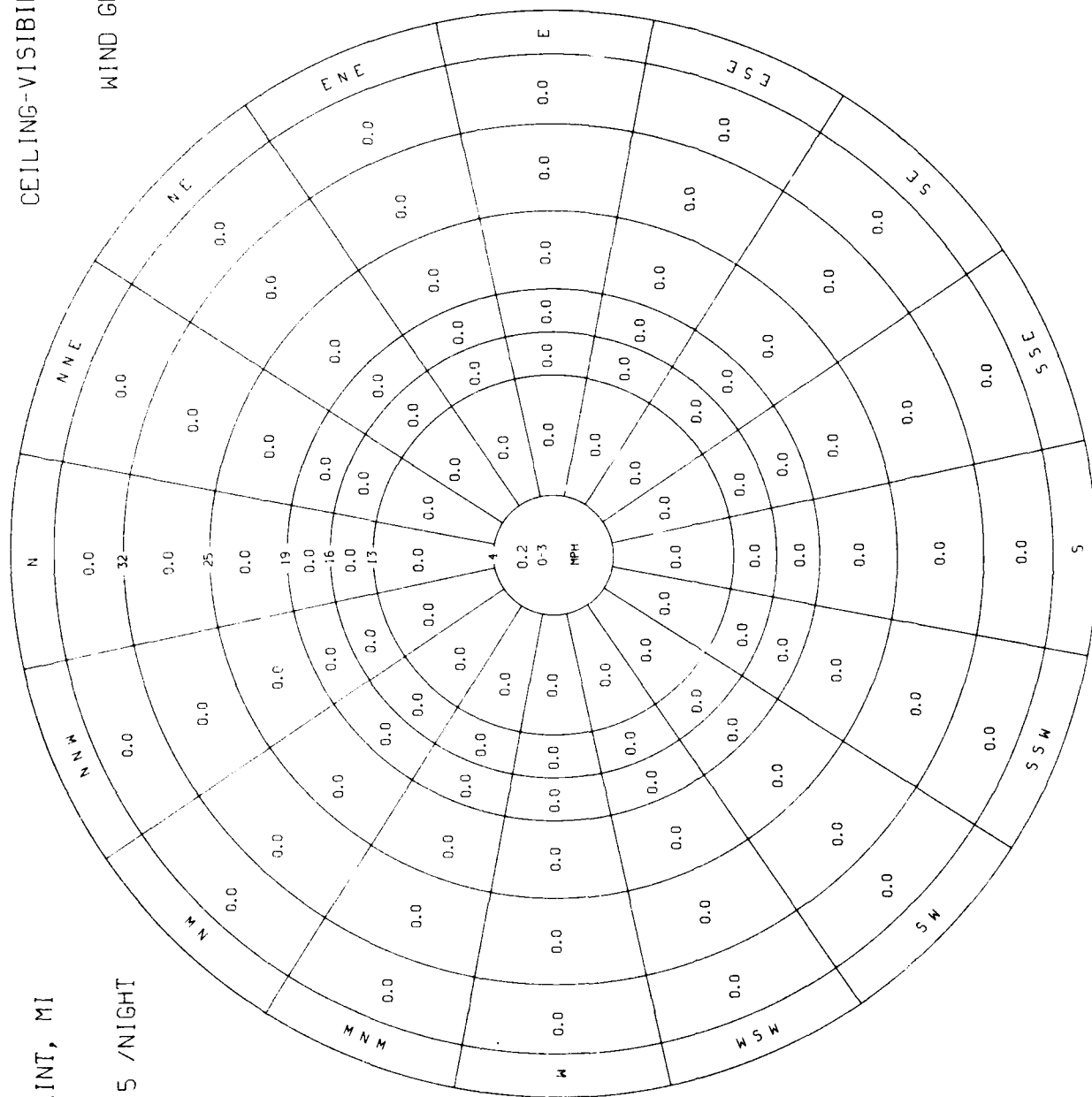
CLASS 5 / DAY

STATION NUMBER: 14826

NO. OBS.: 176

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED				
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D	
N	.0	.0	.0	2.8	.0	1.7	.0	.0	.0	1.1	.0	1.1	.0	1.1	.0	.0	.0	6.8	15.2
NNE	.0	.6	.0	1.1	.0	1.1	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	4.0	13.2
NE	.0	.0	.0	1.1	.0	.6	.0	1.1	.0	.6	.0	.6	.0	.0	.0	.0	.0	3.4	13.7
ENE	.0	.6	.0	2.3	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	9.6
E	.0	1.1	.0	4.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	6.8	9.0
ESE	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	8.7
SE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	3.4	9.8
SSE	.0	.0	.0	7.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	9.0
S	.0	4.0	.0	8.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	13.6	7.0
SSW	.0	1.7	.0	4.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.6
SW	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	6.6
WSW	.0	.6	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.4
W	.0	2.3	.0	6.8	.0	.6	.0	.6	.0	.6	.0	.6	.0	.6	.0	.6	.0	11.4	10.6
WNW	.0	1.1	.0	.6	.0	.6	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	3.4	11.8
NW	.0	1.7	.0	1.7	.0	.0	.0	.6	.0	1.1	.0	.6	.0	.6	.0	.0	.0	5.7	11.8
NNW	.0	1.1	.0	3.4	.0	.0	.0	.0	.0	1.1	.0	.6	.0	.6	.0	.0	.0	6.3	11.9
CALM	.0	6.3														.0	.0	6.3	
TOTAL	1	21.0	.2	56.3	.0	9.7	.0	2.8	.0	5.7	.0	4.0	.0	.6	.4	100			9.3

CEILING-VISIBILITY
WIND GRAPH



FNT FLINT, MI
CLASS 5 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: FNT FLINT, MI

CLASS E / NIGHT

NO. OBS.: 203

STATION NUMBER: 14826

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.0	3.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4
NNE	.0	.0	.0	3.4	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	3.9
NNE	.0	.0	.0	3.4	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	4.9
ENE	.0	.0	.0	5.4	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	6.4
E	.0	3.4	.0	4.4	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	8.9
ESE	.0	1.5	.0	3.4	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	6.2
SE	.0	3.0	.0	3.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	7.4
SSE	.0	1.0	.0	2.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	6.9
S	.0	2.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9
SSW	.0	.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7
SW	.0	1.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
WSW	.0	1.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
W	.0	3.0	.0	4.9	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	6.9
WNW	.0	.5	.0	2.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	8.0
NW	.0	2.5	.0	4.4	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	6.1
NNW	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	9.7
CALM	.1	11.3													11.3
TOTAL	.2	31.0	.3	58.6	.0	3.4	.0	3.4	.0	3.0	.0	.5	.0	.0	6.7

NATIONAL CLIMATIC CENTER ASHEVILLE NC

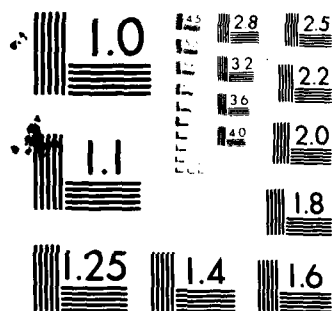
WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME I--ETC(U)
JUN 81 DOT-FA79WAI-057

DOT-FA79WAI-057

NL

5. 4

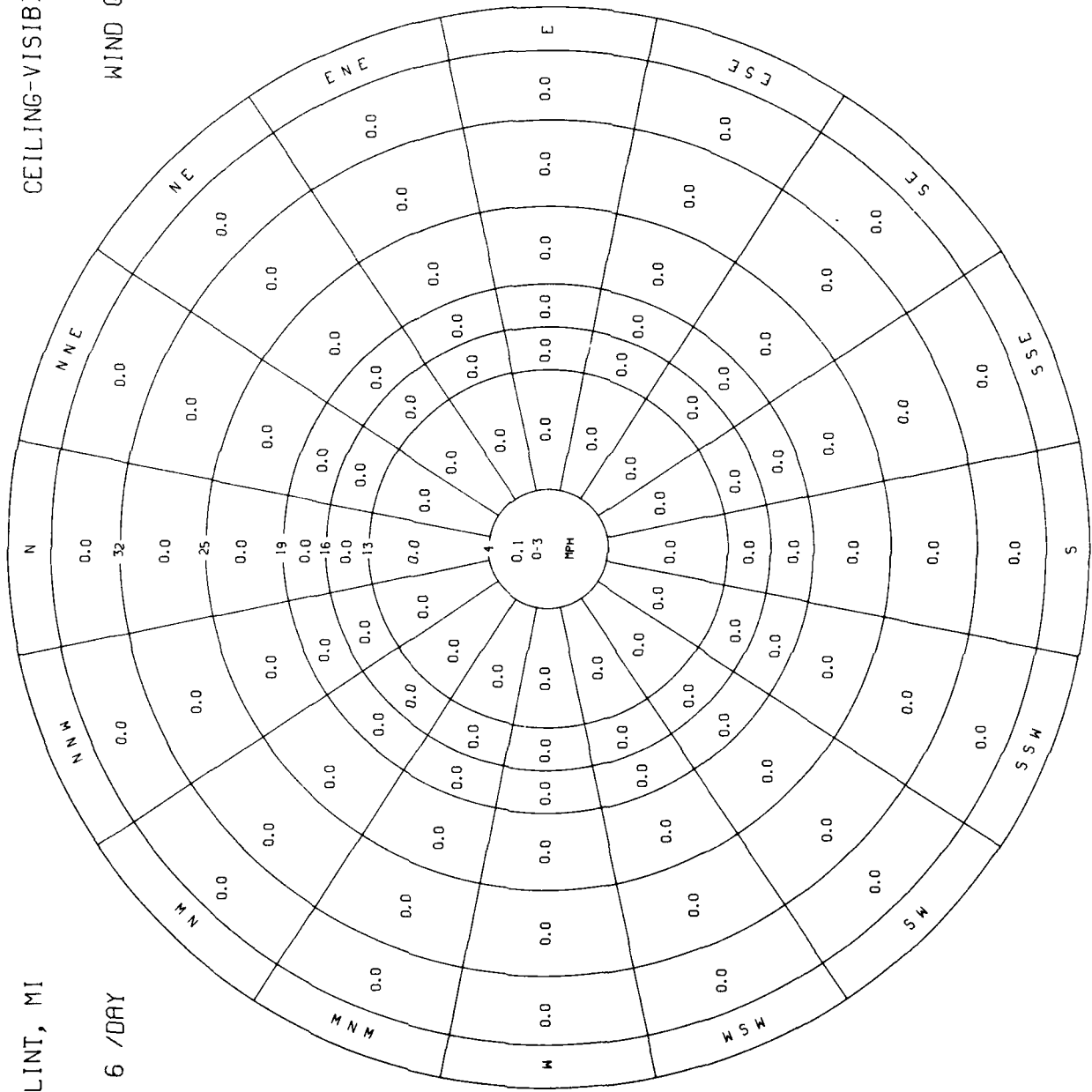
2000



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CEILING-VISIBILITY

WIND GRAPH



FNT FLINT, MI

CLASS 6 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 6 / DAY

STATION NUMBER: 14826

NO. OBS.: 136

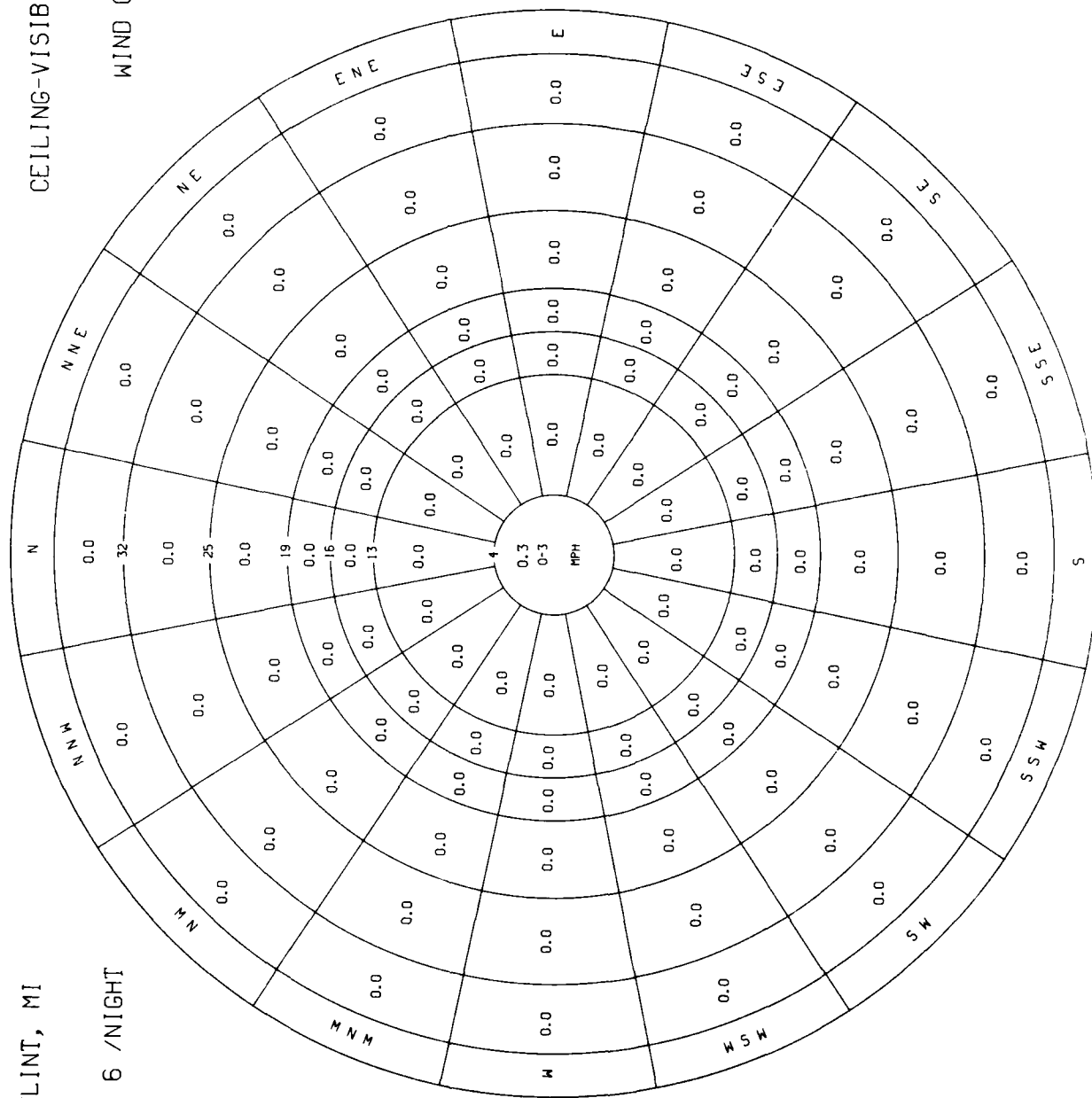
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.0
NNE	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	5.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.7
E	.0	1.5	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.8
ESE	.0	1.5	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	5.0
SE	.0	3.7	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	4.5
SSE	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.0
S	.0	.7	.0	5.9	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	7.4	7.4
SSW	.0	5.9	.0	4.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	4.8
SW	.0	2.2	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	7.4	9.2
WSW	.0	2.9	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	6.6	9.3
W	.0	1.5	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	6.6	8.7
WNW	.0	1.5	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.5
NW	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.7
NNW	.0	1.5	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	4.8
CALM	.1	22.1														.1	22.1	
TOTAL	.1	47.1	.1	49.3	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.3	100	4.9

FNT FLINT, MI

CEILING-VISIBILITY

WIND GRAPH

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 6 / NIGHT

STATION NUMBER: 14826

NO. OBS.: 260

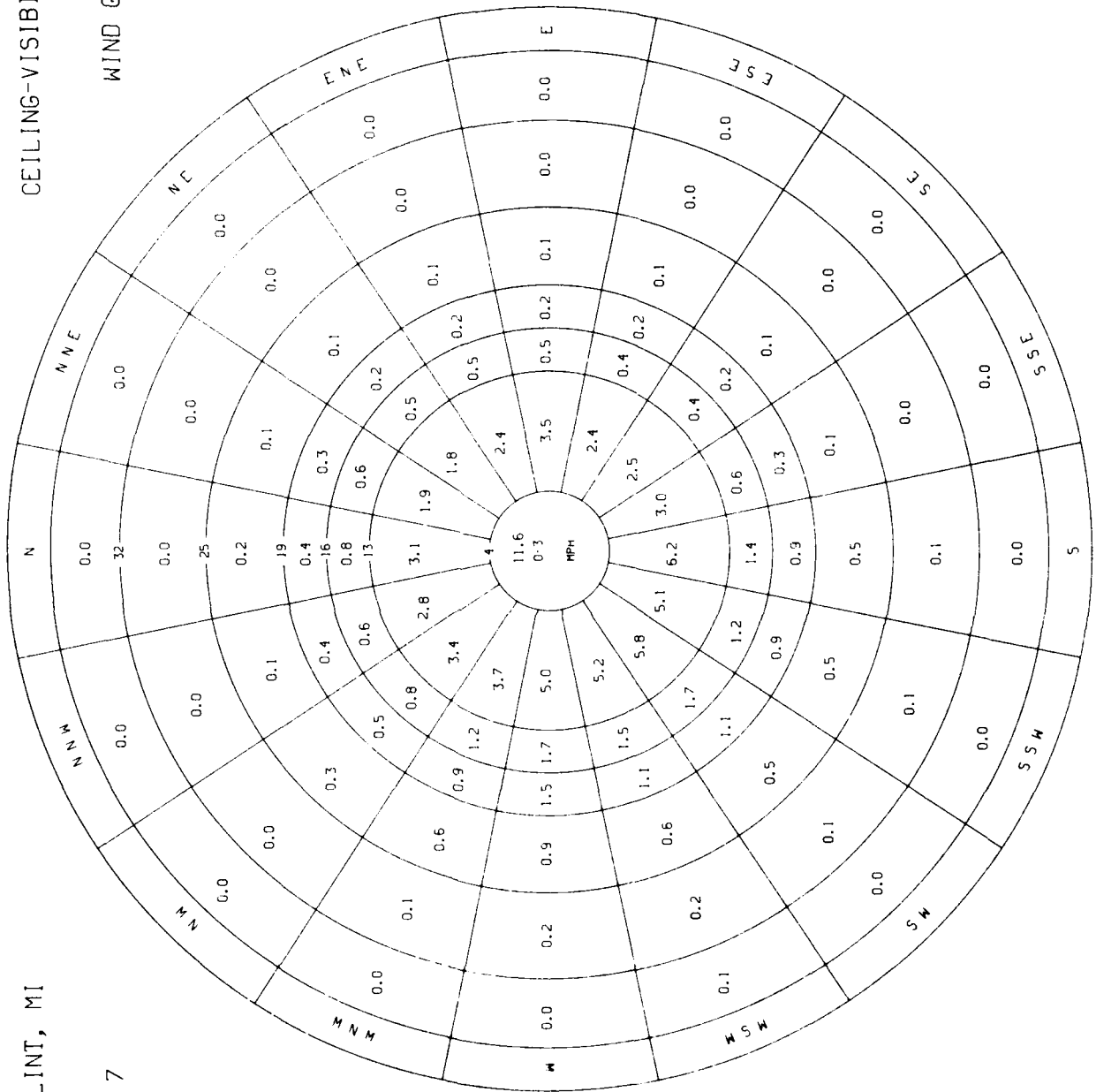
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.3	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0 4.6
NNE	.0	.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0 1.9
NE	.0	1.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
ENE	.0	1.2	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
E	.0	1.5	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.2
ESE	.0	1.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.8
SE	.0	3.1	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.0
SSE	.0	2.3	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
S	.0	2.3	.0	5.4	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.1 8.5
SSW	.0	1.2	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.0
SW	.0	3.5	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1 8.1
WSW	.0	1.5	.0	4.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5
W	.0	3.1	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.7
WNW	.0	1.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.8
NW	.0	2.3	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.2
NNW	.0	.8	.0	2.3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 3.5
CALM	.1	22.3													.1 22.3
TOTAL	.3	51.9	.3	45.0	.0	1.2	.0	.0	.0	.8	.0	.8	.0	.4	.6 100
															4.6

CEILING-VISIBILITY

WIND GRAPH

FNT FLINT, MI

CLASS 7

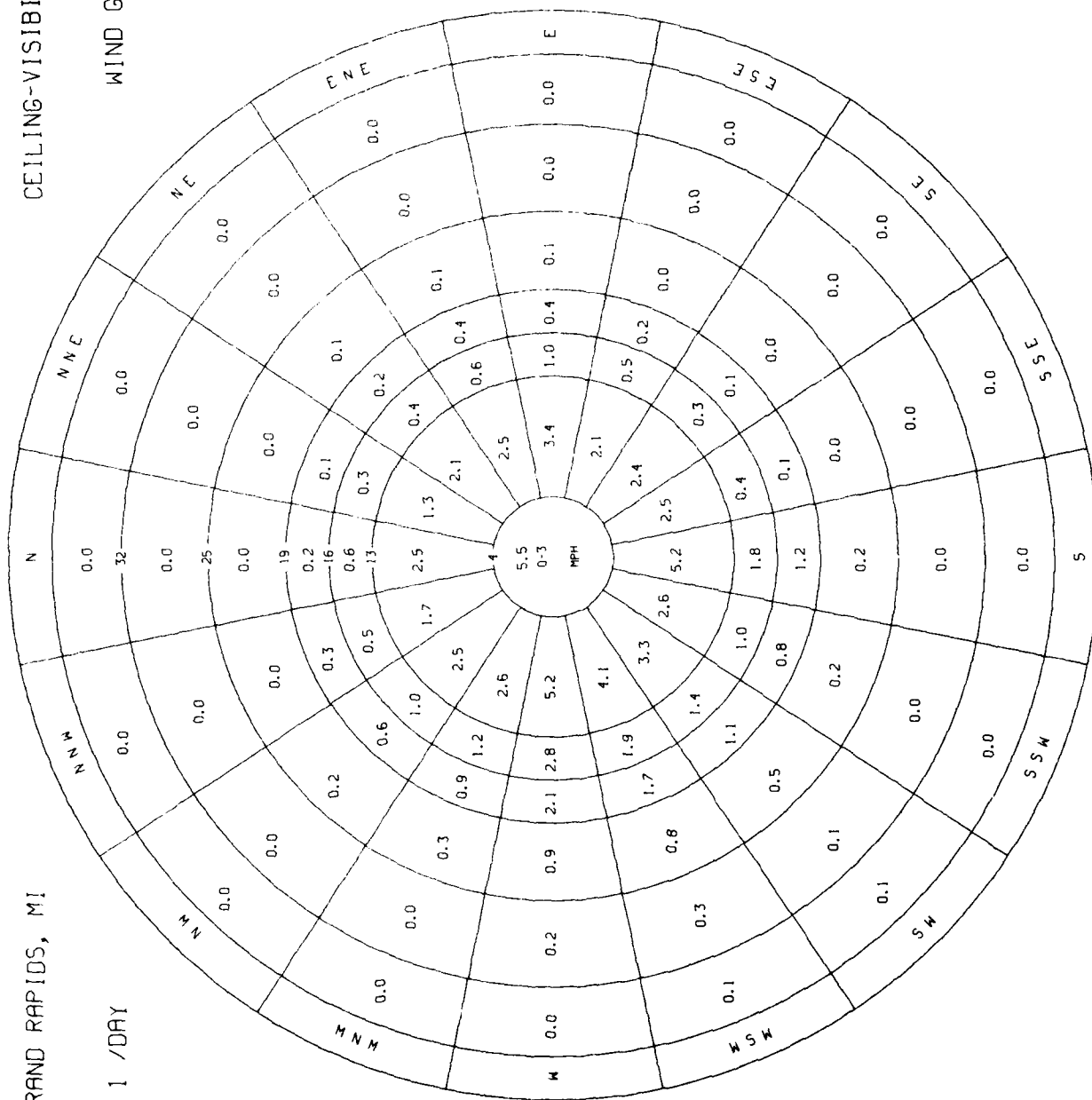


CEILING-VISIBILITY

WIND GRAPH

GRR GRAND RAPIDS, MI

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 1 / DAY

STATION NUMBER: 94860

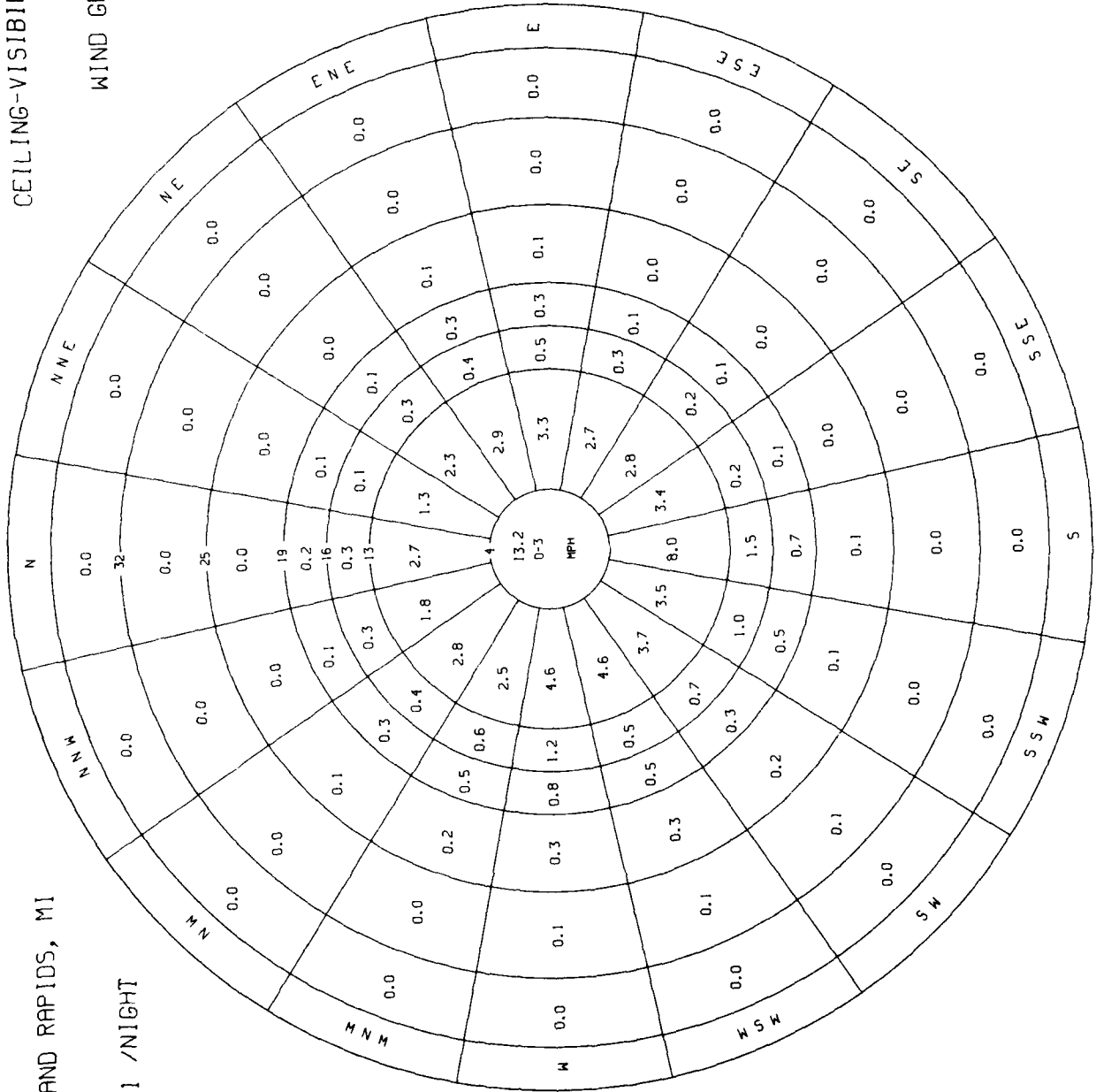
NO. OBS.: 19172

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	2.5	3.1	.6	.7	.2	.3	.0	.0	.0	.0	.0	.0	3.6	4.4	9.4
NNE	.2	.2	1.3	1.6	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.9	2.3	9.0
NNE	.2	.2	2.1	2.6	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.0	3.6	9.7
ENE	.2	.2	2.5	3.1	.6	.7	.4	.5	.1	.1	.0	.0	.0	.0	3.8	4.7	10.2
E	.3	.3	3.4	4.2	1.0	1.2	.4	.5	.1	.2	.0	.0	.0	.0	5.3	6.4	10.1
ESE	.2	.2	2.1	2.6	.5	.6	.2	.2	.0	.0	.0	.0	.0	.0	3.0	3.7	9.5
SE	.3	.3	2.4	2.9	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	3.1	3.8	8.3
SSE	.3	.4	2.5	3.0	.4	.5	.1	.2	.0	.1	.0	.0	.0	.0	3.4	4.1	8.7
S	.4	.5	5.2	6.4	1.8	2.2	1.2	1.4	.2	.2	.0	.0	.0	.0	8.8	10.7	10.8
SSW	.2	.3	2.6	3.1	1.0	1.2	.8	.9	.2	.2	.0	.0	.0	.0	4.8	5.8	11.6
SW	.2	.3	3.3	4.0	1.4	1.7	1.1	1.4	.5	.6	.1	.2	.1	.1	6.7	8.2	12.5
WSW	.2	.3	4.1	5.0	1.9	2.3	1.7	2.0	.8	.9	.3	.4	.1	.1	9.1	11.0	13.1
W	.3	.3	5.2	6.4	2.8	3.4	2.1	2.6	.9	1.1	.2	.2	.0	.0	11.5	14.0	12.8
WNW	.2	.2	2.6	3.2	1.2	1.4	.9	1.1	.3	.4	.0	.0	.0	.0	5.3	6.4	12.1
NW	.1	.2	2.5	3.1	1.0	1.2	.6	.7	.2	.3	.0	.0	.0	.0	4.5	5.5	11.5
NNW	.2	.2	1.7	2.1	.5	.6	.3	.3	.0	.0	.0	.0	.0	.0	2.7	3.3	10.1
CALM	1.8	2.2													1.8	2.2	
TOTAL	5.5	6.7	46.2	56.2	15.5	18.9	10.5	12.8	3.6	4.4	.7	.9	.2	.2	82.2	100	10.9

GRR GRAND RAPIDS, MI

CLASS 1 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1964-1978

STATION NAME: GRR GRAND RAPIDS, MI

CLASS 1 / NIGHT

NO. OBS.: 16815

STATION NUMBER: 94860

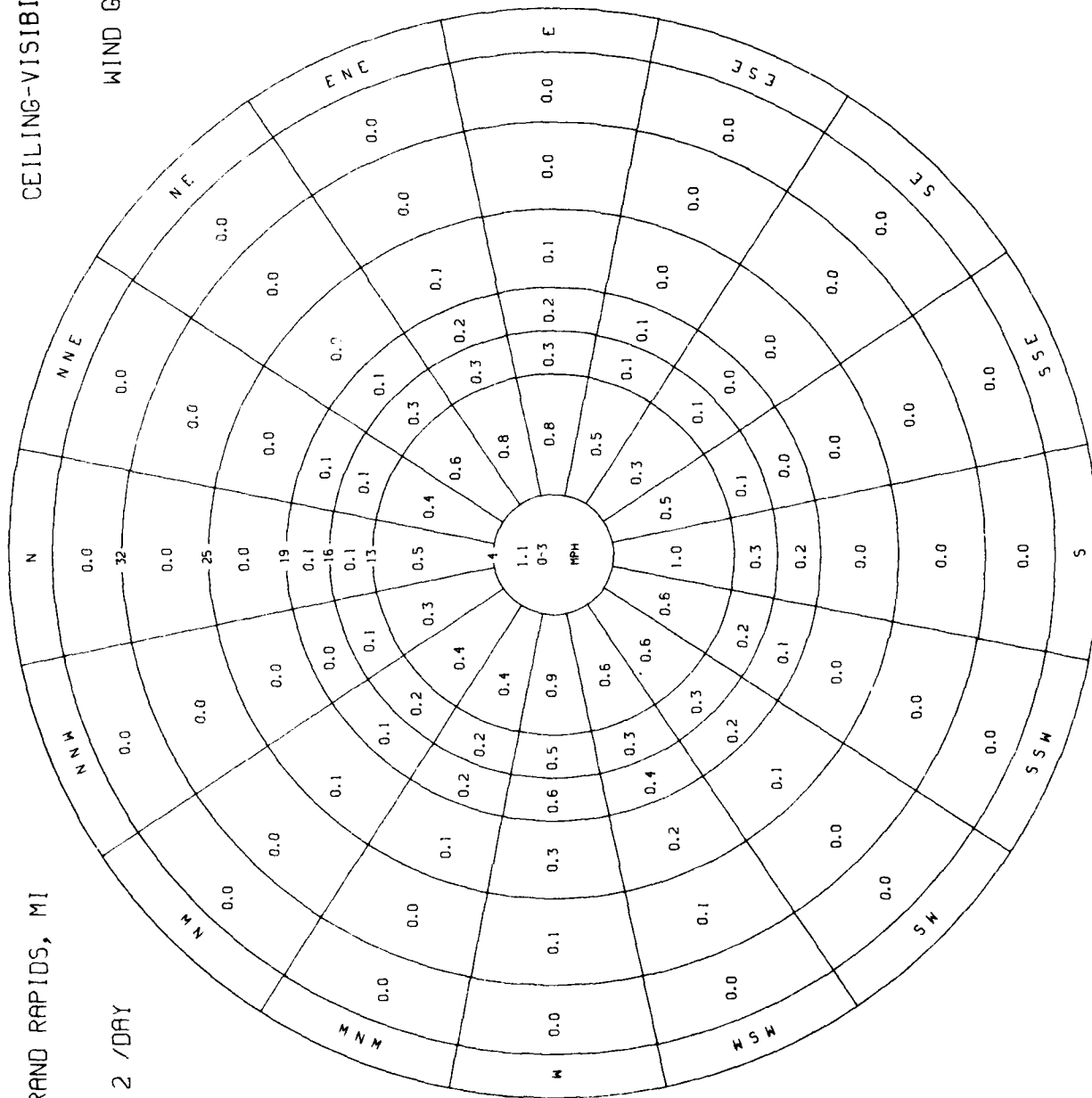
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.5	.6	2.7	3.4	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.8	4.7	8.0
NNE	.3	.4	1.3	1.6	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.9	2.3	7.5
NE	.4	.5	2.3	2.8	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	3.1	3.8	8.1
ENE	.2	.3	2.9	3.5	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.8	4.7	9.0
E	.6	.8	3.3	4.0	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	4.8	5.9	8.5
ESE	.7	.9	2.7	3.3	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	3.9	4.7	7.6
SE	.8	.9	2.8	3.5	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.9	4.8	7.1
SSE	.7	.8	3.4	4.1	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	4.4	5.4	7.3
S	.8	1.0	8.0	9.8	1.5	1.8	.7	.9	.1	.2	.0	.0	.0	.0	11.2	13.7	9.2
SSW	.3	.4	3.5	4.3	1.0	1.2	.5	.6	.1	.2	.0	.0	.0	.0	5.5	6.7	10.3
SW	.5	.6	3.7	4.5	.7	.8	.3	.4	.2	.2	.1	.1	.0	.0	5.5	6.7	9.5
WSW	.4	.5	4.6	5.7	.5	.6	.5	.6	.3	.4	.1	.1	.0	.0	6.5	7.9	9.5
W	.3	.4	4.6	5.6	1.2	1.4	.8	1.0	.3	.4	.1	.1	.0	.0	7.3	8.9	10.5
WNW	.2	.3	2.5	3.1	.6	.8	.5	.6	.2	.3	.0	.0	.0	.0	4.1	5.0	10.5
NW	.3	.4	2.8	3.4	.4	.5	.3	.4	.1	.1	.0	.0	.0	.0	3.9	4.7	9.3
NNW	.2	.3	1.8	2.2	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.4	3.0	8.6
CALM	5.9	7.2													5.9	7.2	
TOTAL	13.2	16.1	53.0	64.6	8.7	10.6	5.1	6.2	1.6	2.0	.4	.4	.1	.1	82.0	100	8.4

CEILING-VISIBILITY

WIND GRAPH

GRR GRAND RAPIDS, MI

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 2 / DAY

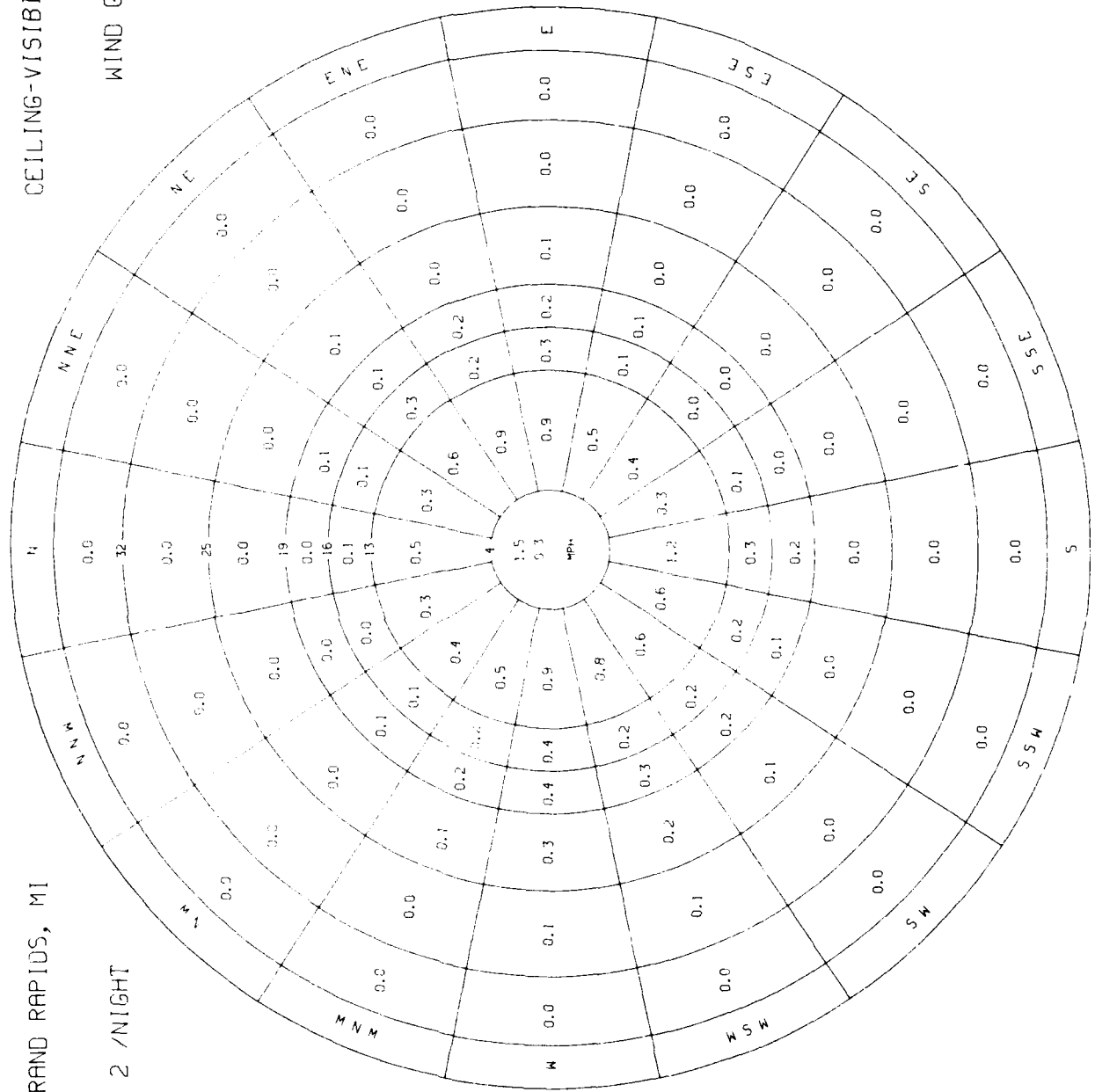
STATION NUMBER: 94860

NO. OBS.: 4149

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.5	2.6	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.7 4.1 10.3
NNE	.0	.2	.4	2.2	.1	.4	.1	.5	.0	.1	.0	.0	.0	.0	.6 3.4 10.7
NE	.0	.2	.6	3.6	.3	1.4	.1	.8	.0	.3	.0	.0	.0	.0	1.1 6.4 11.2
ENE	.1	.3	.8	4.5	.3	1.9	.2	1.1	.1	.3	.0	.1	.0	.0	1.5 8.2 11.5
E	.1	.3	.8	4.5	.3	1.8	.2	1.3	.1	.4	.0	.1	.0	.0	1.5 8.4 11.7
ESE	.0	.1	.5	2.7	.1	.8	.1	.6	.0	.1	.0	.0	.0	.0	.8 4.3 10.5
SE	.1	.4	.3	1.9	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5 2.7 8.0
SSE	.1	.4	.5	2.6	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.7 3.7 9.2
S	.1	.3	1.0	5.4	.3	1.5	.2	1.1	.0	.2	.0	.0	.0	.0	1.5 8.6 10.7
SSW	.0	.1	.6	3.1	.2	.9	.1	.7	.0	.1	.0	.0	.0	.0	.9 5.0 11.2
SW	.0	.2	.6	3.3	.3	1.6	.2	.9	.1	.8	.0	.1	.0	.1	1.2 6.9 12.9
WSW	.1	.3	.6	3.4	.3	1.8	.4	2.0	.2	1.2	.1	.5	.0	.2	1.7 9.5 14.5
W	.1	.3	.9	5.2	.5	2.7	.6	3.4	.3	1.6	.1	.3	.0	.0	2.4 13.6 13.7
WNW	.0	.1	.4	2.2	.2	1.3	.2	1.3	.1	.6	.0	.1	.0	.0	1.0 5.7 13.4
NW	.0	.2	.4	2.4	.2	.8	.1	.6	.1	.4	.0	.1	.0	.0	.8 4.4 12.0
NNW	.0	.1	.3	1.6	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4 2.5 10.4
CALM	.4	2.5													.4 2.5
TOTAL	1.1	6.3	9.1	51.2	3.4	18.9	2.7	15.3	1.1	6.4	.3	1.5	.1	.4	17.8 100 11.6

CEILING-VISIBILITY
WIND GRAPH

GRR GRAND RAPIDS, MI
CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 2 / NIGHT

STATION NUMBER: 94860

NO. OBS.: 3695

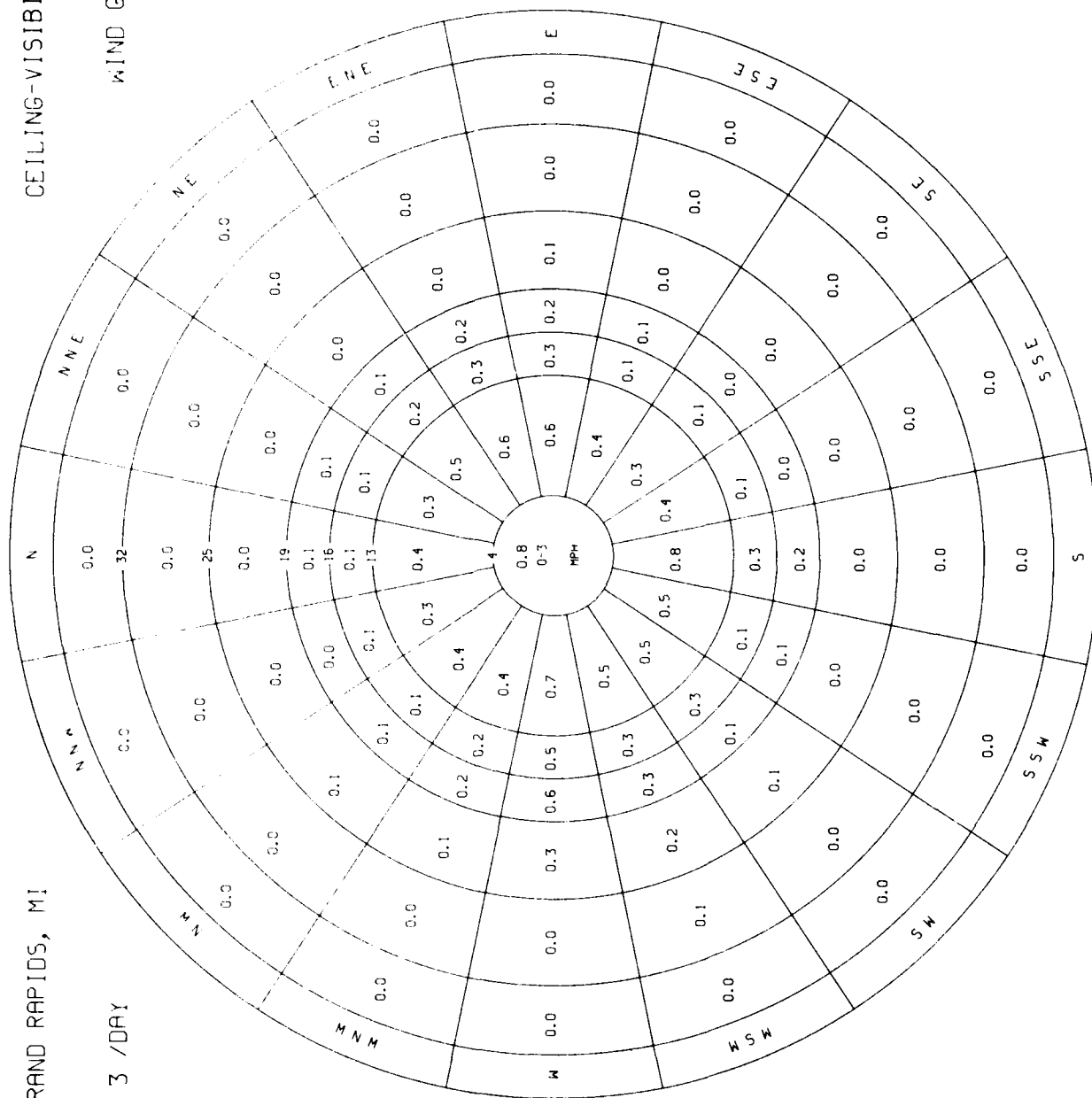
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.5	.5	2.8	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.8	4.3	9.6
NNE	.0	.2	.3	1.6	.1	.6	.1	.4	.0	.2	.0	.0	.0	.0	.5	3.0	11.5
NE	.1	.3	.6	3.6	.3	1.6	.1	.8	.1	.3	.0	.0	.0	.0	1.2	6.6	11.3
ENE	.1	.3	.9	4.9	.2	1.4	.2	1.1	.0	.3	.0	.0	.0	.0	1.4	8.0	10.8
E	.1	.5	.9	5.1	.3	1.6	.2	1.3	.1	.4	.0	.0	.0	.0	1.6	8.9	11.0
ESE	.1	.4	.5	3.0	.1	.8	.1	.4	.0	.2	.0	.0	.0	.0	.9	4.8	9.8
SE	.1	.4	.4	2.2	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5	2.9	7.7
SSE	.0	.2	.3	1.8	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.5	2.5	9.1
S	.1	.4	1.2	6.6	.3	1.5	.2	.9	.0	.1	.0	.0	.0	.0	1.7	9.6	10.0
SSW	.0	.3	.6	3.3	.2	1.1	.1	.7	.0	.1	.0	.0	.0	.0	1.0	5.5	10.9
SW	.0	.2	.6	3.5	.2	1.1	.2	1.2	.1	.5	.0	.3	.0	.0	1.2	6.9	12.3
WSW	.1	.4	.8	4.6	.2	1.3	.3	1.5	.2	1.3	.1	.6	.0	.1	1.8	9.8	13.5
W	.1	.4	.9	5.1	.4	2.3	.4	2.1	.3	1.6	.1	.6	.0	.0	2.2	12.0	13.4
WNW	.0	.1	.5	2.6	.2	1.2	.2	1.0	.1	.6	.0	.1	.0	.0	1.0	5.6	12.9
NW	.0	.1	.4	2.3	.1	.6	.1	.6	.0	.2	.0	.1	.0	.0	.7	3.9	11.2
NNW	.0	.1	.3	1.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.4	1.9	9.4
CALM	.7	3.7													.7	3.7	
TOTAL	1.5	8.4	9.8	54.6	3.0	16.5	2.3	12.6	1.1	6.0	.3	1.7	.0	.2	18.0	100	11.0

CEILING-VISIBILITY

WIND GRAPH

GRR GRAND RAPIDS, MI

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 3 / DAY

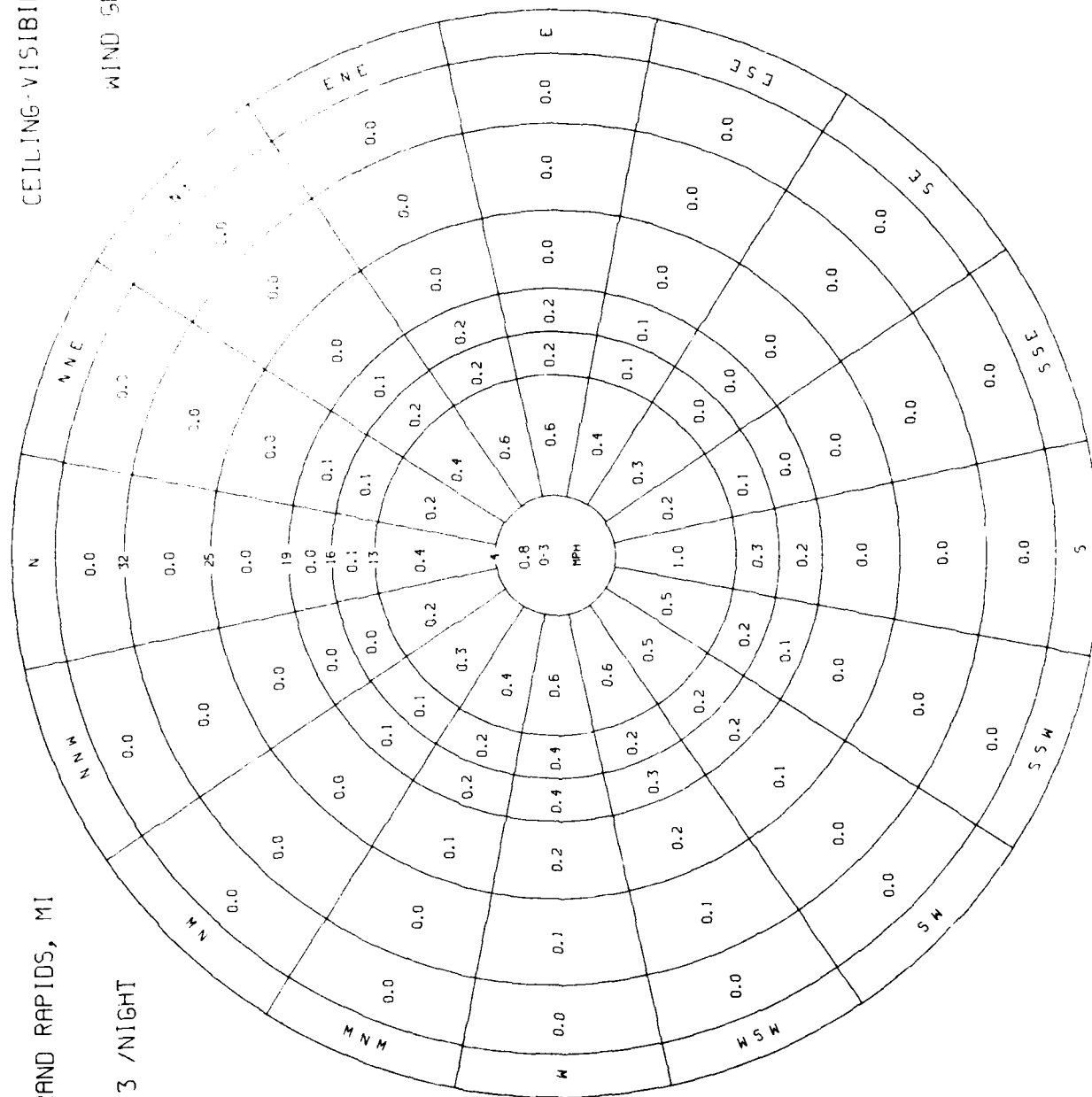
STATION NUMBER: 94860

NO. OBS.: 3461

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.2	.4	2.5	.1	.8	.1	.5	.0	.0	.0	.0	.0	.0	.0	.6	4.0	10.2
NNE	.0	.2	.3	2.0	.1	.4	.1	.5	.0	.1	.0	.0	.0	.0	.0	.5	3.3	10.9
NE	.0	.2	.5	3.4	.2	1.5	.1	.9	.0	.3	.0	.0	.0	.0	.0	.9	6.3	11.3
ENE	.0	.2	.6	3.9	.3	1.8	.2	1.2	.0	.3	.0	.1	.0	.0	.0	1.1	7.7	11.9
E	.0	.2	.6	3.9	.3	1.8	.2	1.3	.1	.5	.0	.0	.0	.0	.0	1.1	7.7	12.1
ESE	.0	.1	.4	2.5	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.0	.6	4.1	10.8
SE	.1	.4	.3	1.8	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.4	2.7	8.2
SSE	.0	.3	.4	2.5	.1	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.5	3.5	9.3
S	.0	.3	.8	5.3	.3	1.8	.2	1.2	.0	.3	.0	.1	.0	.0	.0	1.3	8.9	11.1
SSW	.0	.1	.5	3.1	.1	.9	.1	.8	.0	.1	.0	.0	.0	.0	.0	.8	5.1	11.6
SW	.0	.2	.5	3.3	.3	1.8	.1	1.0	.1	.9	.0	.1	.0	.1	.0	1.1	7.3	13.1
WSW	.0	.2	.5	3.1	.3	2.1	.3	2.3	.2	1.4	.1	.5	.0	.1	1.4	9.7	14.8	
W	.0	.2	.7	4.9	.5	3.1	.6	4.0	.3	1.3	.0	.3	.0	.0	2.1	14.3	14.2	
WNW	.0	.1	.4	2.4	.2	1.5	.2	1.5	.1	.7	.0	.1	.0	.0	.9	6.2	13.6	
NW	.0	.1	.4	2.6	.1	1.0	.1	.6	.1	.4	.0	.1	.0	.0	.7	4.7	11.9	
NNW	.0	.1	.3	1.8	.1	.4	.0	.2	.0	.2	.0	.0	.0	.0	.4	2.7	10.4	
CALM	.3	2.0													.3	2.0		
TOTAL	.8	5.3	7.3	49.0	3.0	20.3	2.5	16.7	1.0	7.0	.2	1.4	.0	.3	14.8	100	12.0	

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1964-1978

STATION NAME: GRR GRAND RAPIDS, MI

CLASS 3 / NIGHT

NO. OBS.: 2861

STATION NUMBER: 94860

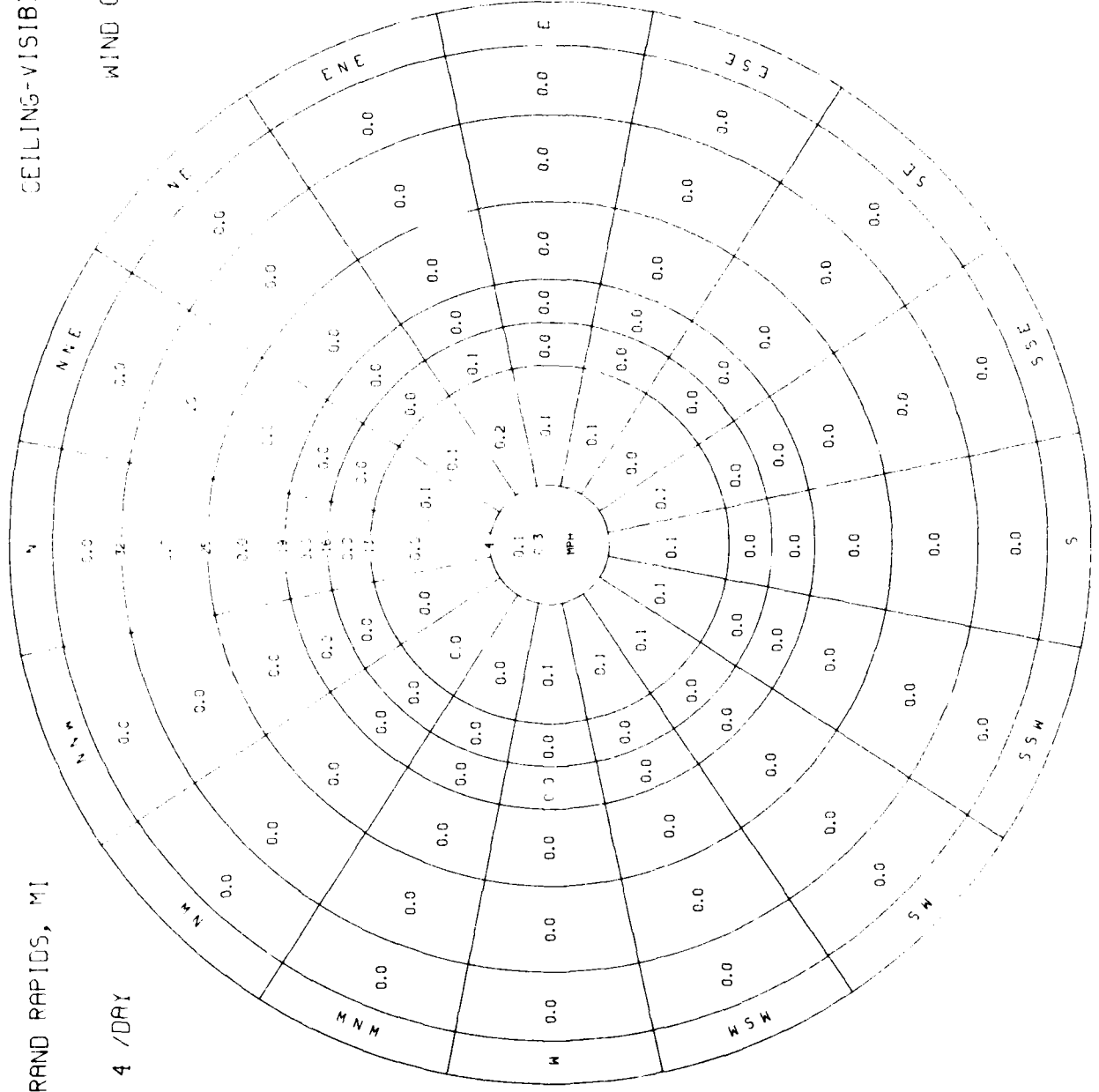
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.4	2.9	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.6 4.4 9.8
NNE	.0	.1	.2	1.7	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.4 3.1 11.5
NE	.0	.2	.4	3.2	.2	1.7	.1	.9	.0	.3	.0	.0	.0	.0	.9 6.4 11.8
ENE	.0	.2	.6	4.1	.2	1.4	.2	1.4	.0	.2	.0	.0	.0	.0	1.0 7.4 11.4
E	.0	.3	.6	4.1	.2	1.5	.2	1.3	.0	.3	.0	.0	.0	.0	1.1 7.7 11.5
ESE	.0	.3	.4	2.7	.1	.9	.1	.5	.0	.2	.0	.0	.0	.0	.6 4.6 10.5
SE	.0	.3	.3	2.1	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4 2.8 8.2
SSE	.0	.2	.2	1.7	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.3 2.5 9.3
S	.0	.3	1.0	6.9	.3	1.9	.2	1.1	.0	.1	.0	.0	.0	.0	1.4 10.2 10.4
SSW	.0	.3	.5	3.4	.2	1.3	.1	.8	.0	.1	.0	.0	.0	.0	.8 5.9 11.0
SW	.0	.2	.5	3.3	.2	1.4	.2	1.4	.1	.6	.0	.3	.0	.0	1.0 7.2 13.0
WSW	.0	.2	.6	4.1	.2	1.4	.3	1.8	.2	1.6	.1	.8	.0	.1	1.4 10.1 14.6
W	.0	.2	.6	4.6	.4	2.7	.4	2.5	.2	1.7	.1	.5	.0	.0	1.7 12.2 13.9
WNW	.0	.1	.4	2.9	.2	1.5	.2	1.2	.1	.7	.0	.1	.0	.0	.9 6.5 12.8
NW	.0	.1	.3	2.4	.1	.9	.1	.7	.0	.2	.0	.0	.0	.0	.6 4.3 11.6
NNW	.0	.1	.2	1.6	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3 2.2 9.7
CALM	.4	2.5													.4 2.5
TOTAL	.8	6.1	7.2	51.7	2.6	18.9	2.0	14.6	.9	6.6	.3	1.9	.0	.2	13.9 100 11.6

CEILING-VISIBILITY

WIND GRAPH

GRR GRAND RAPIDS, MI

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 4 / DAY

STATION NUMBER: 94860

NO. OBS.: 448

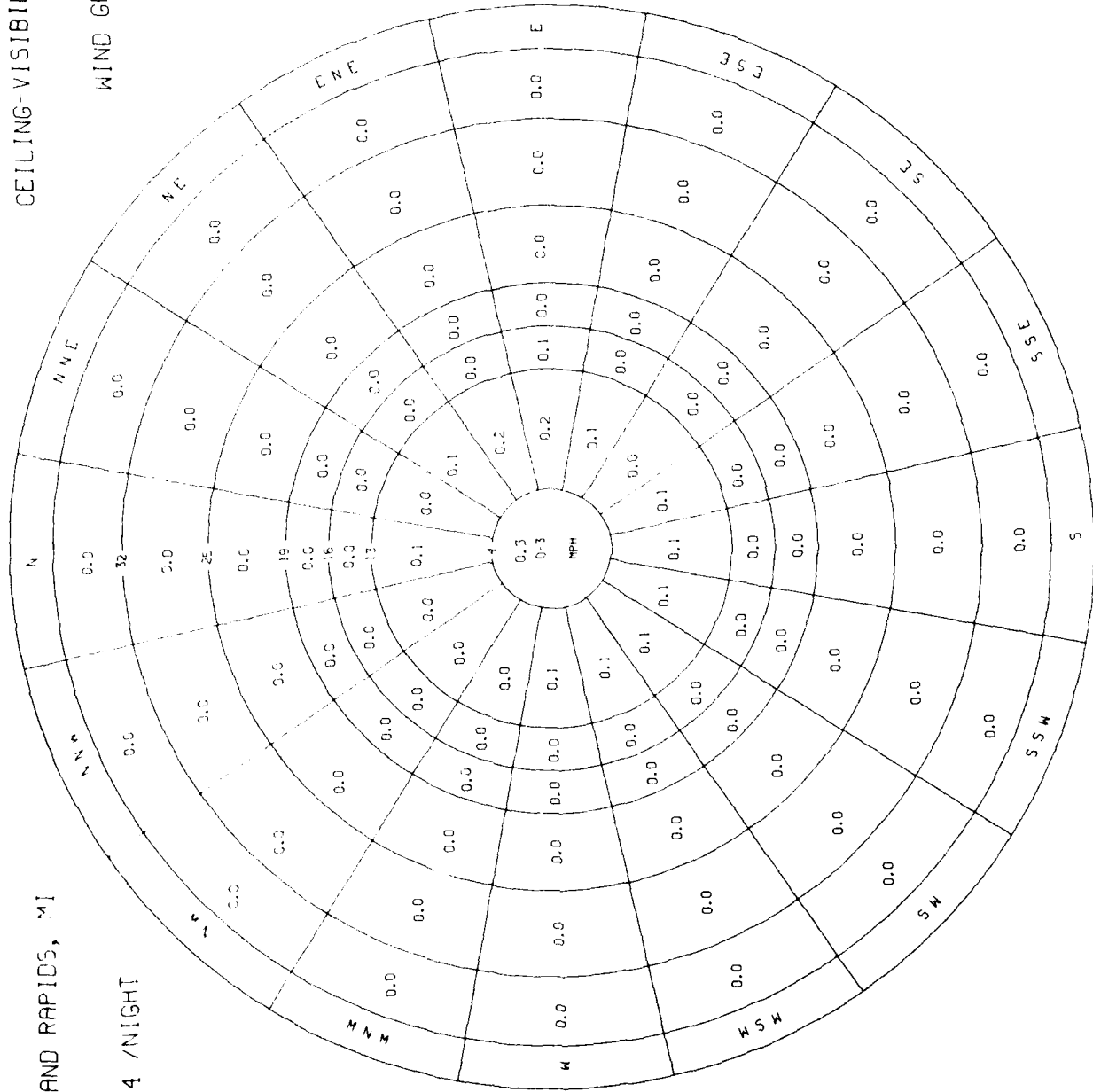
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	.2	.0	2.2	.0	.4	.0	1.3	.0	.4	.0	.0	.0	.0	.1	4.7
NNE	.0	.2	.1	3.3	.0	.2	.0	.9	.0	.0	.0	.0	.0	.0	.1	4.7
NNE	.0	.0	.1	5.8	.0	1.6	.0	.7	.0	.2	.0	.2	.0	.0	.2	6.5
ENE	.0	.4	.2	8.3	.1	2.7	.0	1.1	.0	.2	.0	.0	.0	.0	.2	12.7
E	.0	.2	.1	6.5	.0	2.5	.0	1.8	.0	.2	.0	.2	.0	.0	.2	11.4
ESE	.0	.2	.1	2.9	.0	1.3	.0	.9	.0	.0	.0	.0	.0	.0	.1	5.4
SE	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8
SSE	.0	.4	.1	2.9	.0	.4	.0	.0	.0	.2	.0	.0	.0	.0	.1	4.0
S	.0	.7	.1	6.0	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.2	7.8
SSW	.0	.0	.1	3.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.2
SW	.0	.0	.1	2.9	.0	1.1	.0	.7	.0	.4	.0	.2	.0	.0	.1	5.4
WSW	.0	.7	.1	3.6	.0	.7	.0	.9	.0	.4	.0	.7	.0	.7	.1	7.6
W	.0	.4	.1	5.4	.0	1.3	.0	.9	.0	1.1	.0	.4	.0	.0	.2	3.6
WNW	.0	.2	.0	1.8	.0	.4	.0	.9	.0	.4	.0	.2	.0	.0	.1	4.0
NW	.0	.2	.0	1.8	.0	.4	.0	.7	.0	.4	.0	.2	.0	.0	.1	3.6
NNW	.0	.2	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	2.8
CALM	.0	2.5													.0	2.5
TOTAL	.1	7.1	1.1	58.9	.3	15.4	.2	11.2	.1	4.2	.0	2.5	.0	.1	1.9	1.0

CEILING-VISIBILITY

WIND GRAPH

GRR GRAND RAPIDS, MI

CLASS 4 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 4 / NIGHT

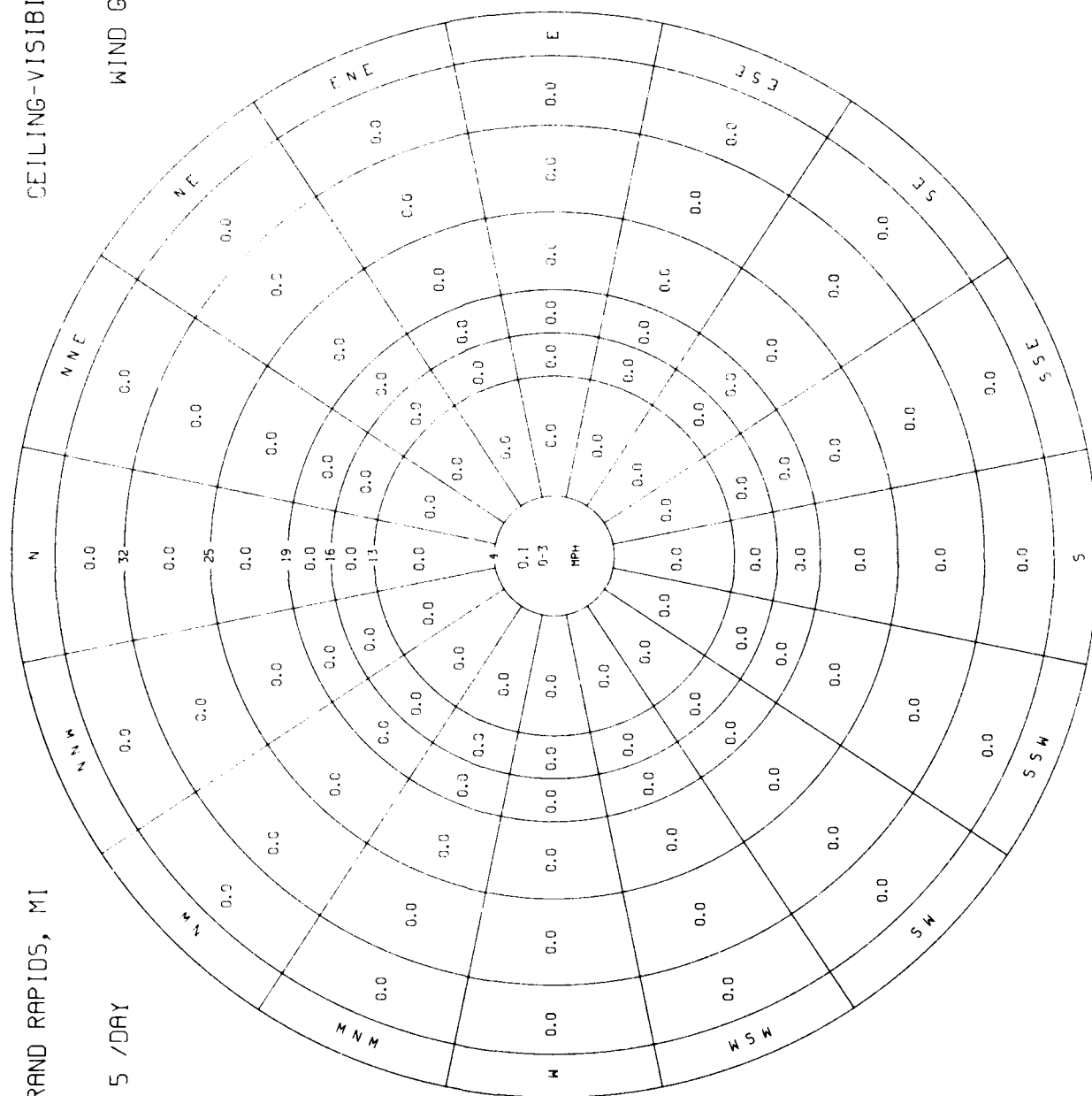
STATION NUMBER: 94860

NO. OBS.: 500

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	.2	.1	2.4	.0	.2	.0	.0	.0	.6	.0	.0	.0	.0	.1	3.4
NNE	.0	.0	.0	1.6	.0	.2	.0	.8	.0	.4	.0	.0	.0	.0	.1	3.0
NE	.0	.2	.1	4.4	.0	1.8	.0	.4	.0	.4	.0	.0	.0	.0	.2	7.2
ENE	.0	.2	.2	9.8	.0	1.6	.0	.4	.0	.6	.0	.0	.0	.0	.3	12.6
E	.0	.4	.2	7.6	.1	2.8	.0	1.6	.0	.8	.0	.0	.0	.0	.3	13.2
ESE	.0	.6	.1	4.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	5.4
SE	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8
SSE	.0	.0	.1	2.4	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.0
S	.0	.8	.1	5.4	.0	.8	.0	.2	.0	.2	.0	.0	.0	.0	.2	7.4
SSW	.0	.2	.1	3.6	.0	1.0	.0	.4	.0	.2	.0	.0	.0	.0	.1	5.4
SW	.0	.2	.1	3.4	.0	.6	.0	.8	.0	.2	.0	.0	.0	.0	.1	5.2
WSW	.0	.8	.1	3.8	.0	1.2	.0	.8	.0	.6	.0	.0	.0	.0	.2	7.2
W	.0	.8	.1	5.4	.0	1.2	.0	1.0	.0	1.8	.0	1.6	.0	.0	.3	11.8
WNW	.0	.0	.0	2.0	.0	.2	.0	.8	.0	.2	.0	.2	.0	.0	.1	3.6
NW	.0	.2	.0	1.8	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.1	2.6
NNW	.0	.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
CALM	.1	5.8													.1	5.8
TOTAL	.3	10.6	1.5	60.6	.3	12.4	.2	8.4	.1	6.0	.0	1.8	.0	.2	2.4	10.2

GRR GRAND RAPIDS, MI

CLASS 5 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1964-1978

STATION NAME: GRR GRAND RAPIDS, MI

CLASS 5 / DAY

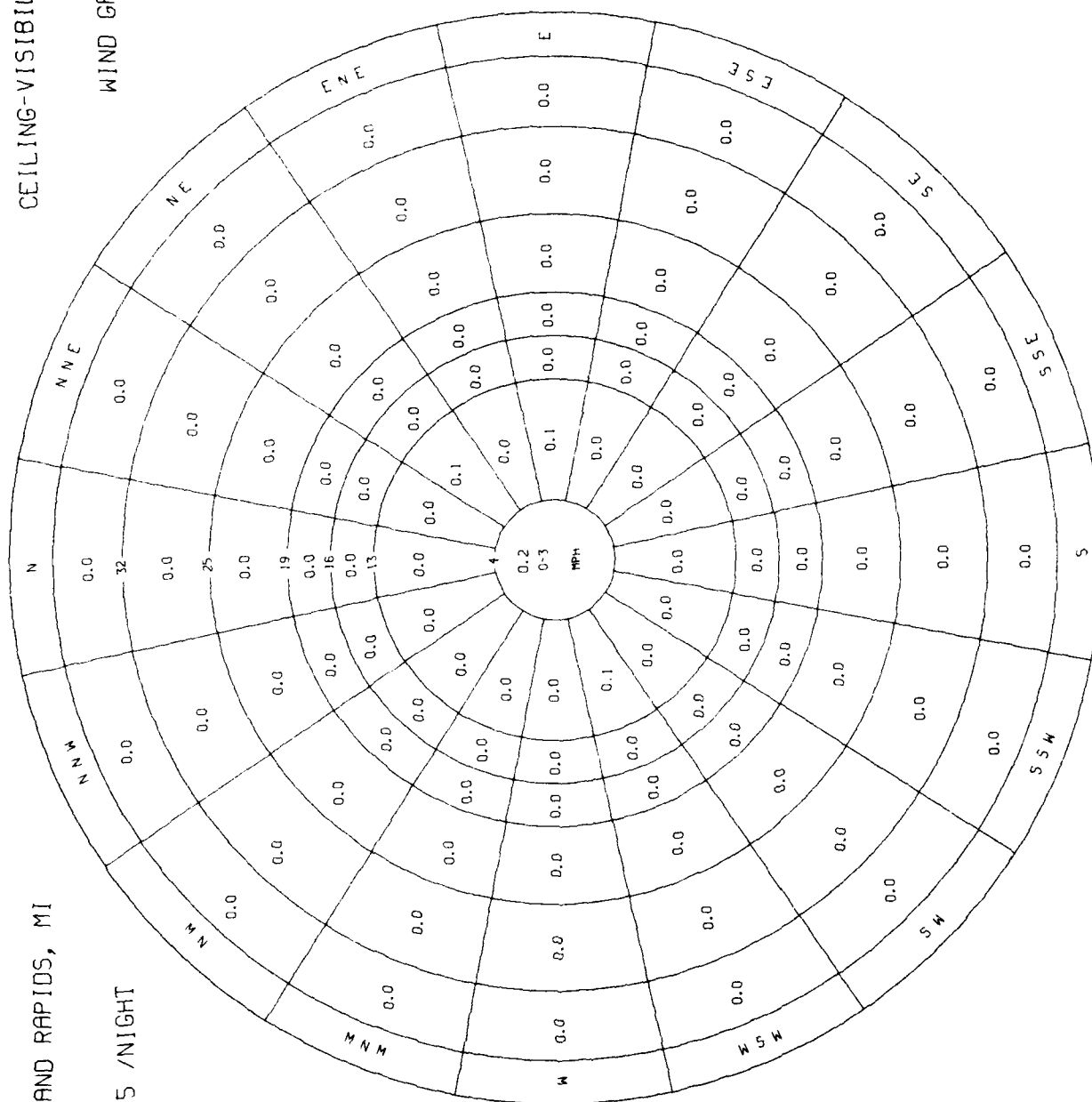
NO. OBS.: 94

STATION NUMBER: 94860

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.6
NNE	.0	1.1	.0	3.2	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	6.4	10.2
NE	.0	.0	.0	3.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	4.3	9.5
ENE	.0	.0	.0	5.3	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	10.0
E	.0	1.1	.0	7.4	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	9.6	10.7
ESE	.0	.0	.0	3.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	4.3	10.0
SE	.0	.0	.0	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	8.2
SSE	.0	.0	.0	2.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	10.3
S	.0	.0	.0	6.4	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	7.4	9.2
SSW	.0	1.1	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	3.2	10.0
SW	.0	.0	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	1.1	.0	5.3	15.8
WSW	.0	2.1	.0	4.3	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	7.4	7.6
W	.0	.0	.0	11.7	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.1	13.8	9.2
WNW	.0	.0	.0	2.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	.0	4.3	15.2
NW	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	3.0
NNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	9.0
CALM	.0	8.5													.0	8.5	
TOTAL	.1	14.9	.3	64.9	.0	8.5	.0	6.4	.0	2.1	.0	1.1	.0	2.1	.4	100	9.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: 58R GRAND RAPIDS, MI

PERIOD: 1964-1978

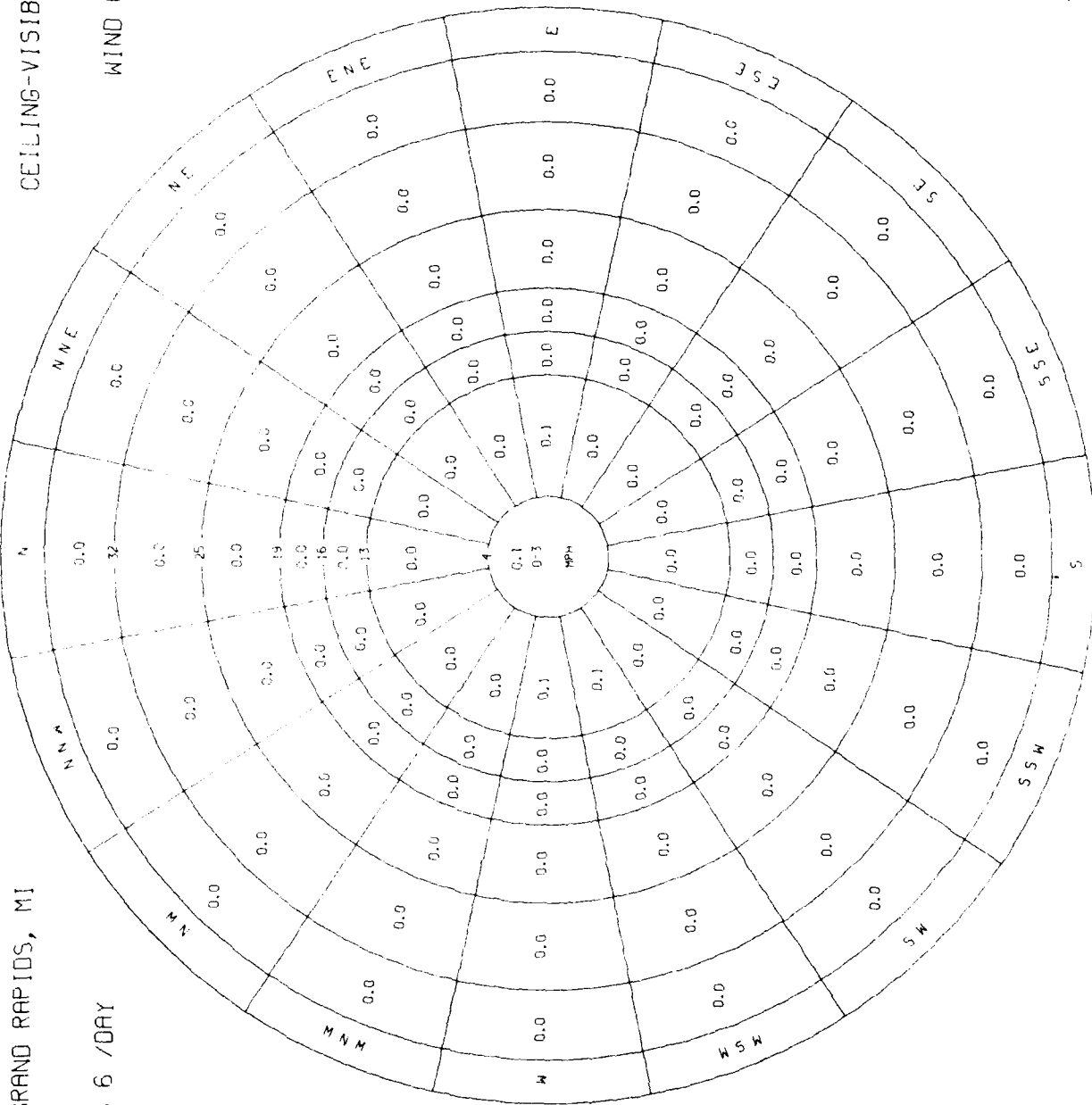
CLASS 5 / NIGHT

STATION NUMBER: 94860

NO. OBS.: 172

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.3	.0	2.9	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.1 6.4
NNE	.0	1.2	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
NE	.0	1.7	.1	8.1	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.1 11.6
ENE	.0	1.7	.0	4.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.0
E	.0	1.7	.1	13.4	.0	.6	.0	1.2	.0	.6	.0	.0	.0	.0	.1 17.4
ESE	.0	.6	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.8
SE	.0	2.3	.0	3.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1 6.4
SSE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
S	.0	.6	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.2
SSW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0 1.2
SW	.0	.6	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.2
WSW	.0	.0	.1	7.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1 8.1
W	.0	1.2	.0	5.8	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.1 7.6
WNW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0 1.2
NW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0 2.9
NNW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
CALM	.1	8.7													.1 8.7
TOTAL	.2	22.7	.6	67.4	.0	3.5	.0	2.9	.0	2.3	.0	1.2	.0	.0	.8 100

GRR GRAND RAPIDS, MI
 CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 6 / DAY

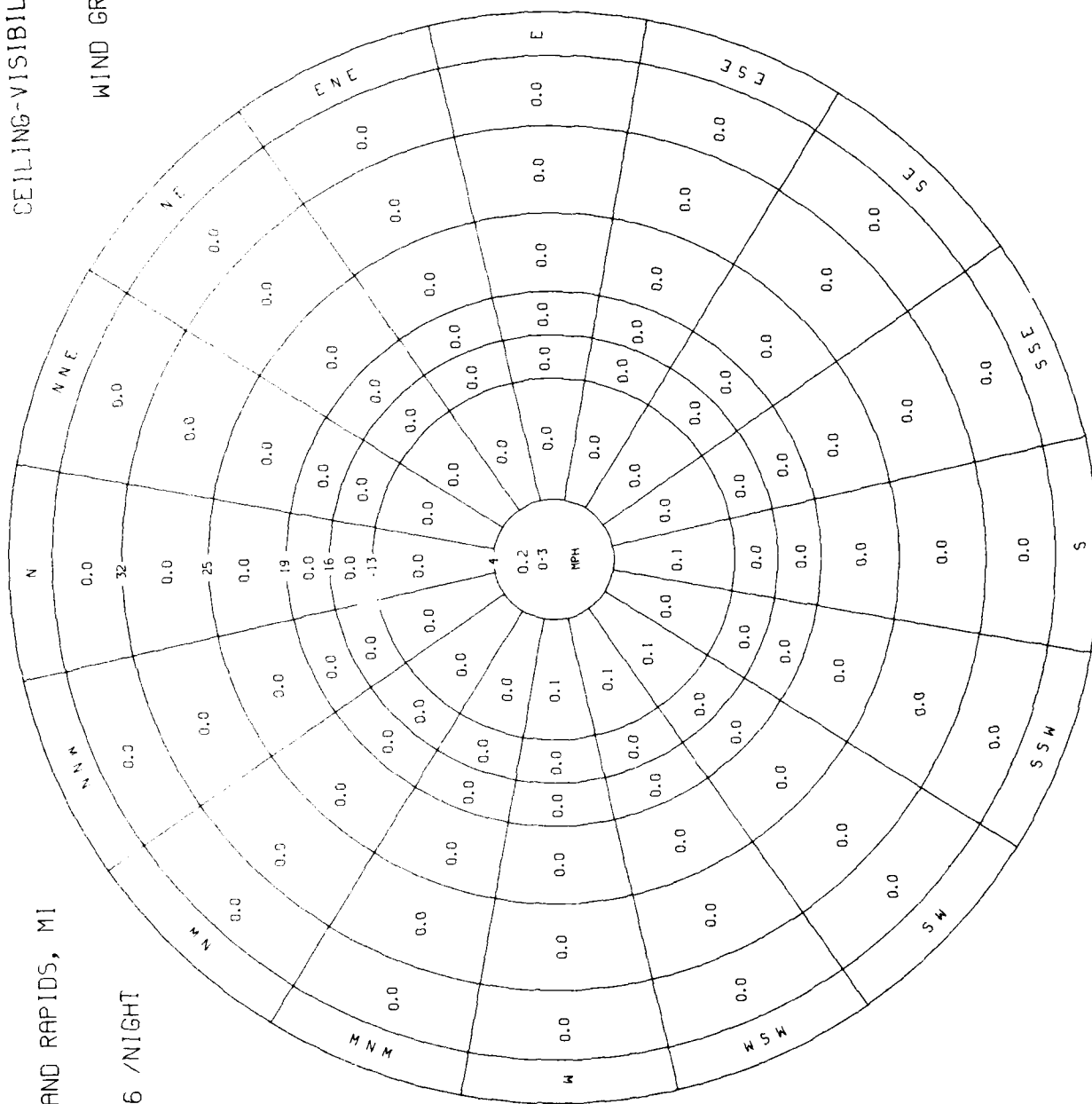
STATION NUMBER: 94860

NO. OBS.: 146

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	6.5
NNE	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.0
NE	.0	.7	.0	1.4	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	2.7	8.8
ENE	.0	1.4	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	6.4
E	.0	2.7	.1	10.3	.0	2.1	.0	.0	.0	.0	.0	.7	.0	.0	.1	15.8	8.9
ESE	.0	.0	.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	6.8
SE	.0	.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	6.2
SSE	.0	1.4	.0	5.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.6
S	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	6.9
SSW	.0	.7	.0	4.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	7.7
SW	.0	.7	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	6.7
WSW	.0	.7	.1	8.2	.0	1.4	.7	.0	.0	.0	.0	.0	.0	.7	.1	11.6	11.1
W	.0	1.4	.1	8.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	11.0	7.2
WNNW	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	6.0
NW	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	2.1	16.7
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	9.6													.1	9.6	
TOTAL	.1	21.2	.4	69.9	.0	5.5	.0	.7	.0	.7	.0	1.4	.0	.7	.6	100	7.3

GRR GRAND RAPIDS, MI

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 6 / NIGHT

STATION NUMBER: 94860

NO. OBS.: 162

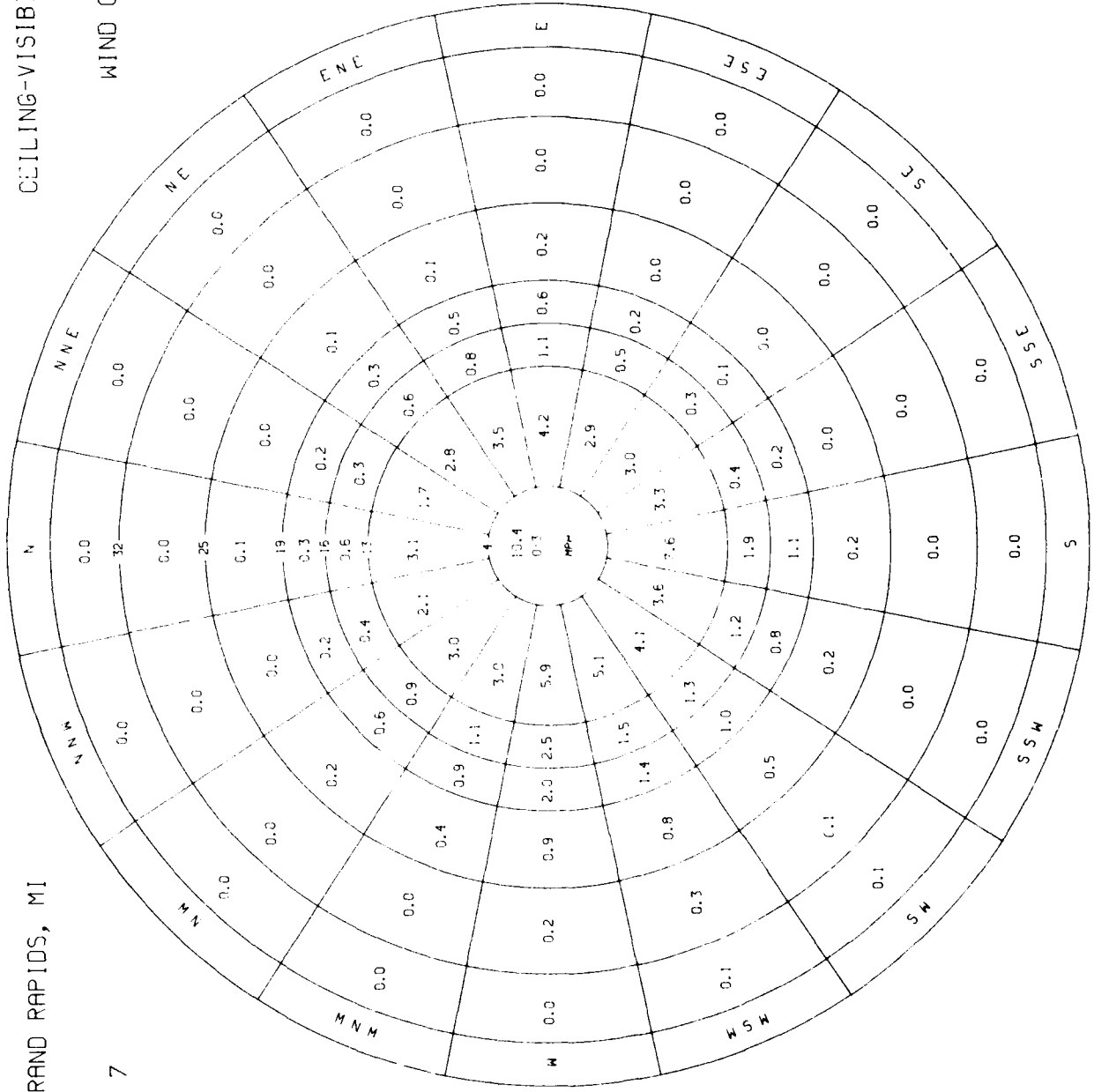
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.2	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.6	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1
ENE	.0	.6	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6
E	.0	2.5	.0	5.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	9.3
ESE	.0	1.2	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9
SE	.0	1.2	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7
SSE	.0	1.2	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1
S	.0	.6	.1	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3
SSW	.0	.6	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
SW	.0	.6	.1	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6
WSW	.0	1.9	.1	13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.8
W	.0	1.2	.1	13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.2
WNW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
NW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
NNW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
CALM	.1	13.0													13.0
TOTAL	.2	26.5	.6	72.2	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	81.0
															5.8

CEILING-VISIBILITY

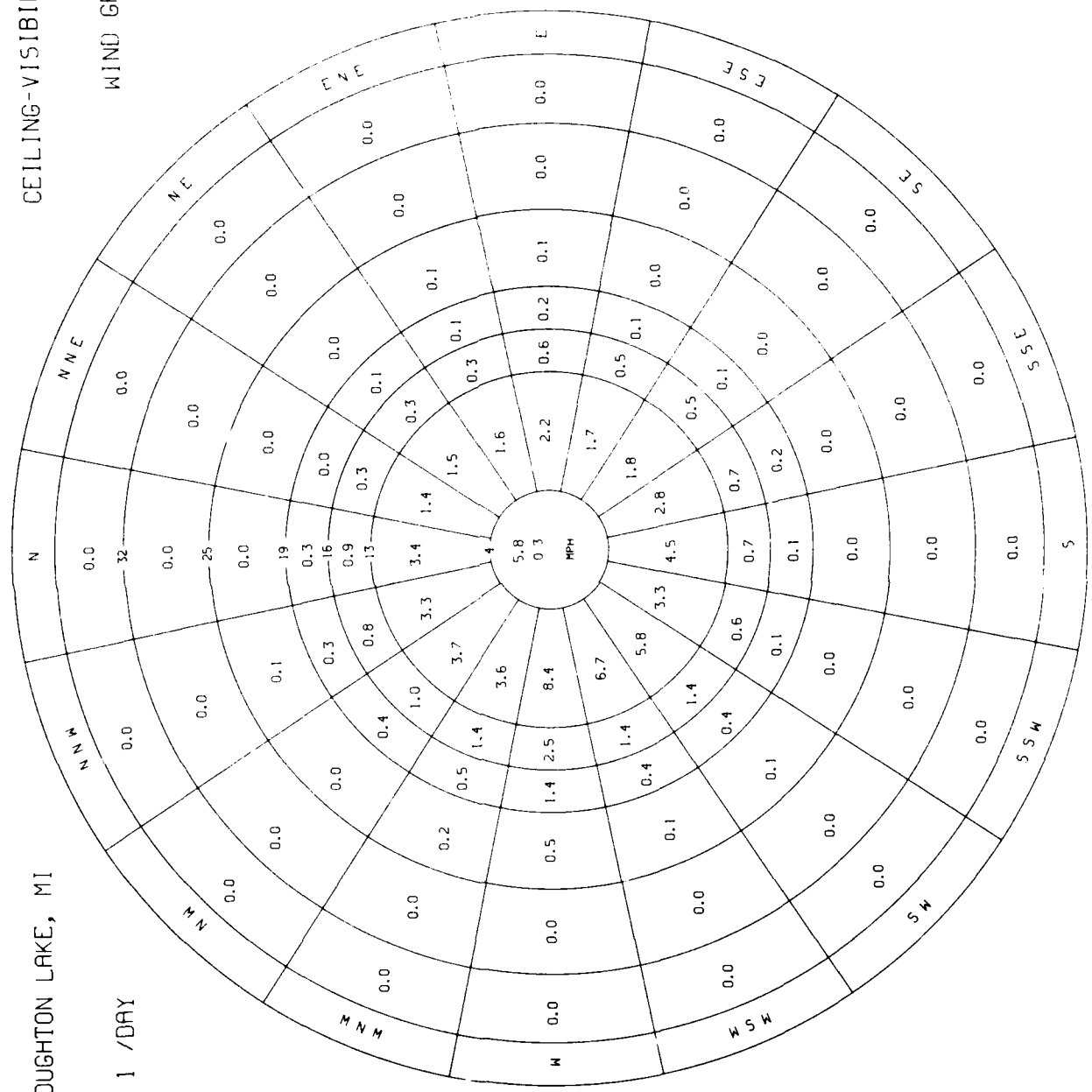
WIND GRAPH

GRR GRAND RAPIDS, MI

CLASS 7



HTL HOUGHTON LAKE, MI
 CLASS 1 / DAY
 CEILING-VISIBILITY
 WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 1 / DAY

STATION NUMBER: 94814

NO. OBS.: 17735

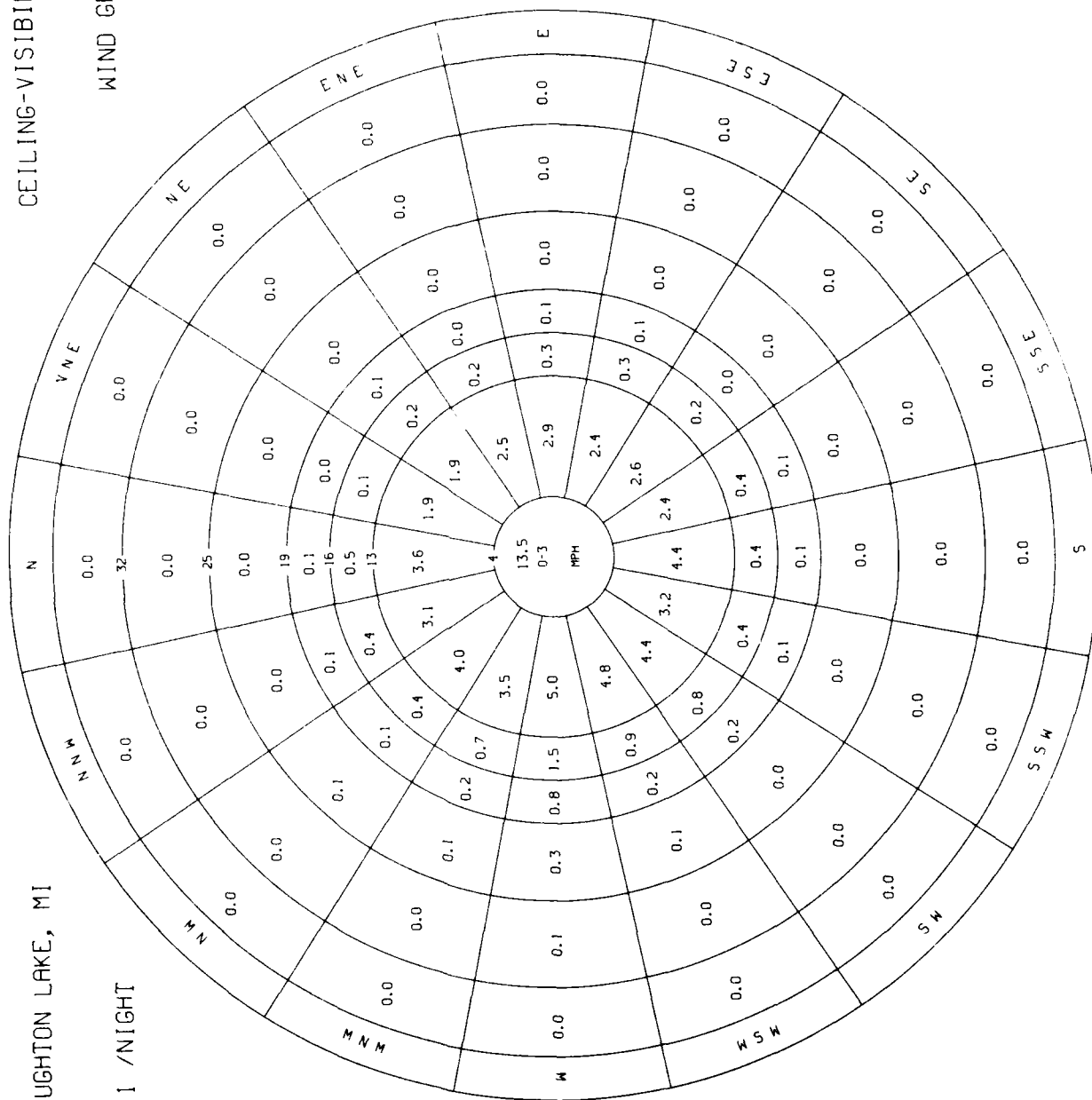
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.2	.2	3.4	4.2	.9	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	4.8	5.9	10.1
NNE	.1	.1	1.4	1.7	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	2.2	9.2
NE	.1	.1	1.5	1.8	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	2.0	2.5	9.3
ENE	.3	.4	1.6	2.0	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	.0	2.4	3.0	9.0
E	.3	.3	2.2	2.7	.6	.8	.2	.3	.1	.1	.0	.0	.0	.0	.0	3.4	4.2	9.8
ESE	.1	.2	1.7	2.1	.5	.7	.1	.2	.0	.1	.0	.0	.0	.0	.0	2.6	3.2	9.9
SE	.2	.2	1.8	2.2	.5	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	2.7	3.3	9.8
SSE	.1	.1	2.8	3.4	.7	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	3.8	4.6	9.8
S	.2	.2	4.5	5.5	.7	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	5.4	6.7	8.8
SSW	.2	.2	3.3	4.0	.6	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	4.1	5.0	9.1
SW	.2	.3	5.8	7.1	1.4	1.7	.4	.5	.1	.1	.0	.0	.0	.0	.0	7.9	9.7	9.8
WSW	.3	.4	6.7	8.2	1.4	1.7	.4	.5	.1	.2	.0	.0	.0	.0	.0	9.0	11.0	9.3
W	.5	.6	8.4	10.3	2.5	3.1	1.4	1.7	.5	.6	.0	.1	.0	.0	.0	13.3	16.3	10.5
WNW	.2	.3	3.6	4.4	1.4	1.7	.5	.6	.2	.2	.0	.0	.0	.0	.0	5.9	7.2	10.6
NW	.2	.2	3.7	4.5	1.0	1.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	5.3	6.5	10.1
NNW	.2	.2	3.3	4.1	.8	1.0	.3	.4	.1	.1	.0	.0	.0	.0	.0	4.7	5.8	10.2
CALM	2.5	3.0														2.5	3.0	
TOTAL	5.8	7.1	55.6	68.2	14.0	17.2	4.7	5.7	1.2	1.5	.1	.1	.0	.0	.0	81.5	100	9.6

HTL HOUGHTON LAKE, MI

HTL HOUGHTON LAKE, MI

CLASS 1 / NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

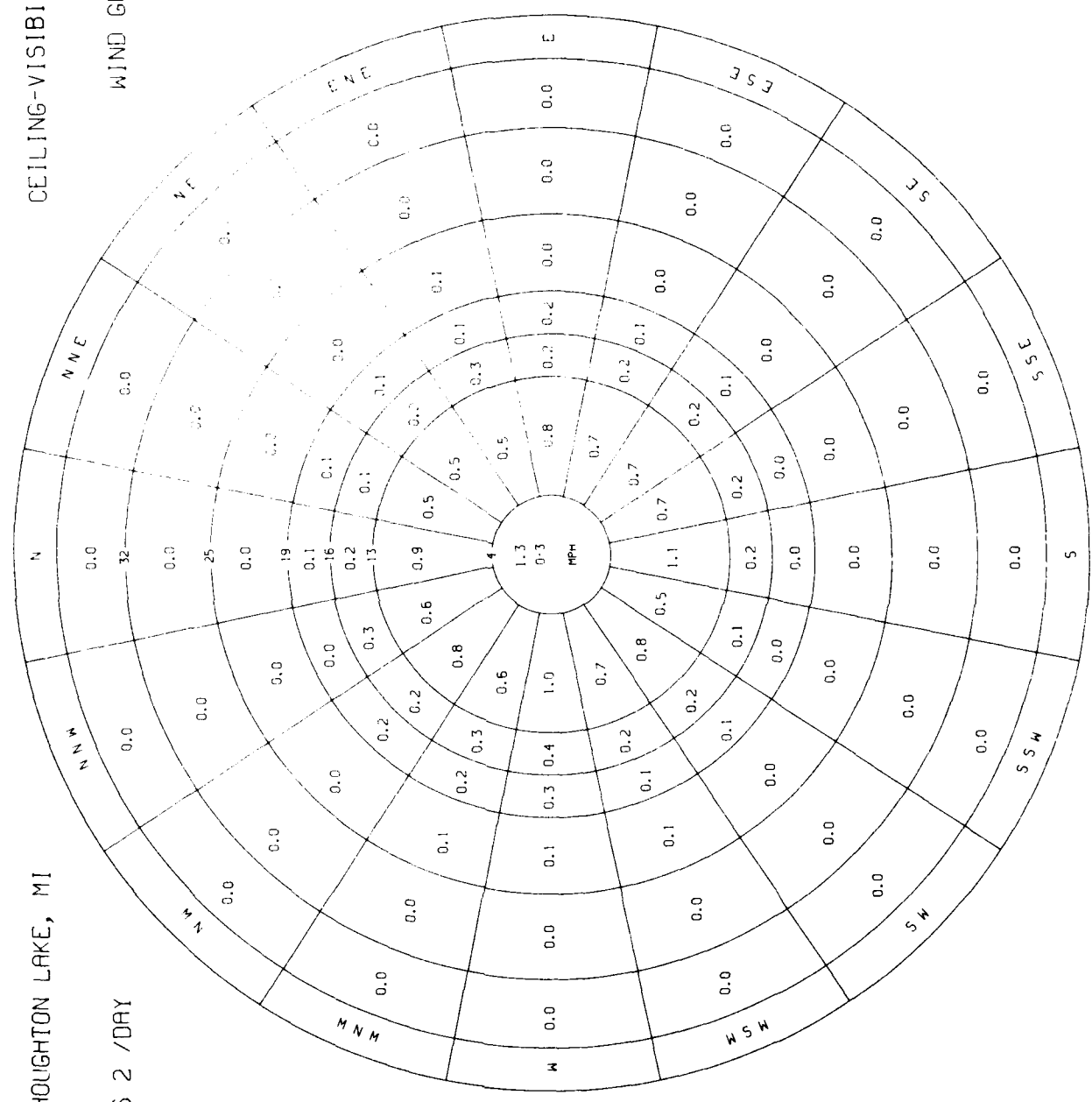
CLASS 1 / NIGHT

STATION NUMBER: 94814

NO. OBS.: 14737

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.5	.7	3.6	4.7	.5	.7	.1	.1	.0	.0	.0	.0	.0	.0	4.8	6.2	8.1
NNE	.4	.5	1.9	2.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.5	3.2	7.4
NE	.5	.6	1.9	2.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.4	7.0
ENE	.6	.8	2.5	3.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.3	6.8
E	.6	.8	2.9	3.7	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	3.9	5.1	7.5
ESE	.4	.5	2.4	3.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.1	4.0	7.5
SE	.3	.4	2.6	3.4	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	3.2	4.2	7.9
SSE	.3	.4	2.4	3.1	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	3.2	4.1	8.2
S	.4	.5	4.4	5.7	.4	.6	.1	.1	.0	.0	.0	.0	.0	.0	5.2	6.8	8.1
SSW	.3	.3	3.2	4.2	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	4.0	5.2	8.6
SW	.4	.5	4.4	5.8	.8	1.0	.2	.2	.0	.1	.0	.0	.0	.0	5.8	7.5	9.0
WSW	.4	.5	4.8	6.2	.9	1.2	.2	.3	.1	.1	.0	.0	.0	.0	6.4	8.3	9.2
W	.4	.6	5.0	6.4	1.5	2.0	.8	1.1	.3	.4	.1	.1	.0	.0	8.2	10.6	10.6
WNW	.4	.5	3.5	4.5	.7	.9	.2	.3	.1	.1	.0	.0	.0	.0	4.9	6.3	8.9
NW	.5	.7	4.0	5.2	.4	.5	.1	.1	.1	.1	.0	.0	.0	.0	5.1	6.6	7.8
NNW	.5	.6	3.1	4.0	.4	.6	.1	.1	.0	.0	.0	.0	.0	.0	4.2	5.4	8.0
CALM	6.7	8.7													6.7	8.7	
TOTAL	13.5	17.5	52.7	68.4	7.8	10.1	2.3	2.9	.7	.9	.1	.1	.0	.0	77.0	100	7.7

HTL HOUGHTON LAKE, MI
CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1965-1978

STATION NAME: HTL HOUGHTON LAKE, MI

CLASS 2 / DAY

NO. OBS.: 4030

STATION NUMBER: 94814

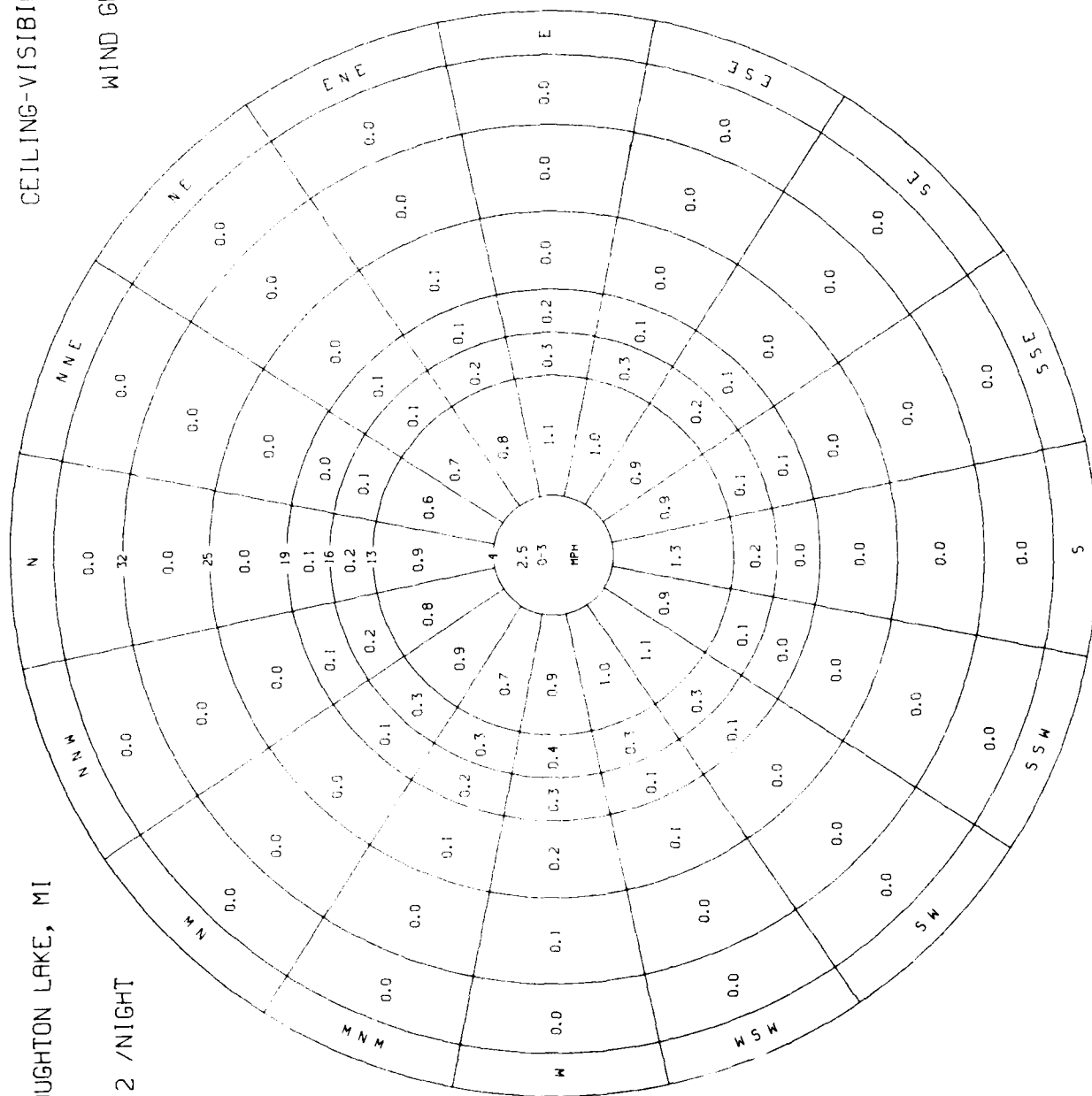
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.9	4.8	.2	1.2	.1	.5	.0	.1	.0	.0	.0	.0	1.3 6.8
NNE	.0	.1	.5	3.0	.1	.8	.1	.3	.0	.0	.0	.0	.0	.0	.8 4.2
NE	.0	.2	.5	2.6	.2	1.0	.1	.4	.0	.1	.0	.0	.0	.0	.8 4.3
ENE	.1	.5	.5	2.7	.3	1.9	.1	.6	.1	.3	.0	.0	.0	.0	1.1 6.1
E	.1	.3	.8	4.4	.2	1.3	.2	.9	.0	.2	.0	.0	.0	.0	1.3 7.1
ESE	.0	.1	.7	3.6	.2	1.2	.1	.6	.0	.1	.0	.0	.0	.0	1.0 5.6
SE	.0	.2	.7	3.8	.2	1.0	.1	.4	.0	.0	.0	.0	.0	.0	1.0 5.5
SSE	.0	.2	.7	3.9	.2	.9	.0	.2	.0	.0	.0	.0	.0	.0	1.0 5.2
S	.1	.3	1.1	6.0	.2	1.1	.0	.1	.0	.0	.0	.0	.0	.0	1.4 7.6
SSW	.1	.3	.5	2.8	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.7 3.9
SW	.0	.1	.8	4.2	.2	.9	.1	.4	.0	.2	.0	.0	.0	.0	1.1 6.1
WSW	.1	.3	.7	3.9	.2	.9	.1	.7	.1	.3	.0	.1	.0	.0	1.2 6.3
W	.1	.3	1.0	5.3	.4	2.2	.3	1.5	.1	.6	.0	.1	.0	.0	1.8 10.0
WNW	.0	.2	.6	3.4	.3	1.6	.2	.9	.1	.3	.0	.0	.0	.0	1.2 6.4
NW	.0	.2	.8	4.4	.2	1.3	.2	.8	.0	.1	.0	.0	.0	.0	1.3 6.8
NNW	.0	.0	.6	3.0	.3	1.6	.0	.2	.0	.2	.0	.0	.0	.0	.9 5.1
CALM	.6	3.2													.6 3.2
TOTAL	1.3	7.0	11.4	61.8	3.6	19.3	1.6	8.7	.5	2.7	.1	.5	.0	.0	18.5 100
															10.3

HTL HOUGHTON LAKE, MI

CLASS 2 / NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 2 / NIGHT

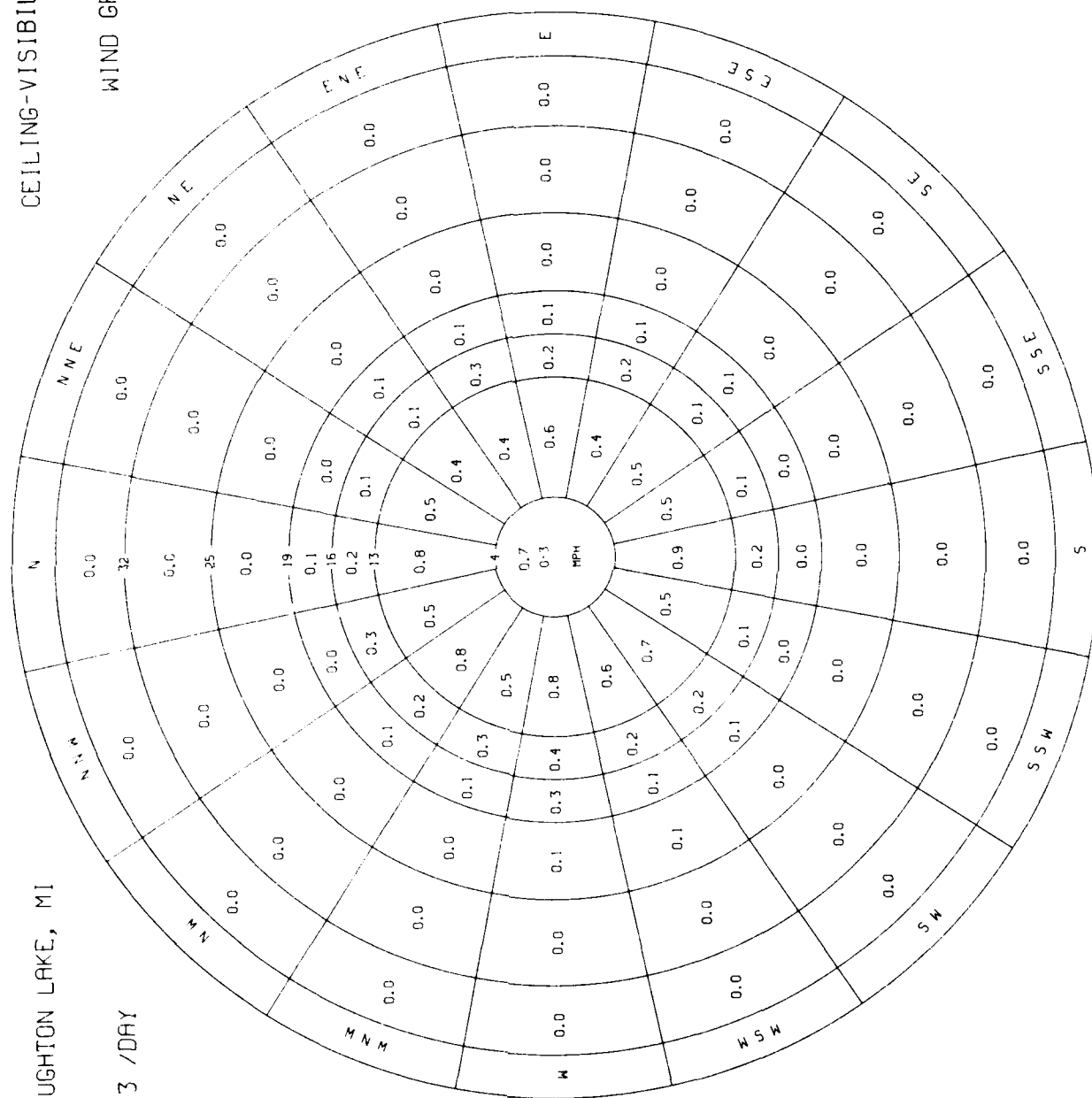
STATION NUMBER: 94314

NO. OBS.: 4402

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.1	.5	.9	3.8	.2	1.0	.1	.3	.0	.1	.0	.0	.0	.0	.0	1.3	5.8	9.6
NNE	.0	.2	.6	2.6	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.8	3.4	9.6
NE	.1	.3	.7	3.0	.1	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	1.0	4.2	9.1
ENE	.1	.5	.6	3.7	.2	.9	.1	.6	.1	.3	.0	.0	.0	.0	.0	1.4	6.0	9.9
E	.1	.5	1.1	4.9	.3	1.4	.2	.8	.0	.1	.0	.0	.0	.0	.0	1.8	7.8	10.1
ESE	.1	.3	1.0	4.5	.3	1.2	.1	.5	.0	.1	.0	.0	.0	.0	.0	1.5	6.5	9.5
SE	.1	.4	.9	3.7	.2	1.0	.1	.3	.0	.1	.0	.0	.0	.0	.0	1.2	5.4	9.6
SSE	.1	.5	.9	4.0	.1	.5	.1	.2	.0	.1	.0	.0	.0	.0	.0	1.2	5.3	8.9
S	.1	.4	1.3	5.9	.2	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.7	7.2	8.7
SSW	.0	.1	.9	3.7	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	4.4	9.0
SW	.1	.4	1.1	4.6	.3	1.1	.1	.5	.0	.1	.0	.0	.0	.0	.0	1.5	6.6	9.8
WSW	.1	.3	1.0	4.4	.3	1.2	.1	.6	.1	.3	.0	.0	.0	.0	.0	1.6	6.8	10.4
W	.1	.2	.9	3.9	.4	1.9	.3	1.3	.2	1.1	.1	.2	.0	.0	.0	2.0	8.6	13.0
WNW	.1	.3	.7	3.0	.3	1.4	.2	.7	.1	.3	.0	.0	.0	.0	.0	1.3	5.7	11.6
NW	.1	.5	.9	3.7	.3	1.3	.1	.4	.0	.1	.0	.0	.0	.0	.0	1.4	6.1	10.0
NNW	.1	.3	.8	3.4	.2	.8	.1	.2	.0	.1	.0	.0	.0	.0	.0	1.1	4.9	9.5
CALM	1.2	5.2														1.2	5.2	
TOTAL	2.5	10.9	14.5	62.9	3.7	16.0	1.6	6.9	.7	2.9	.1	.5	.0	.0	.0	23.0	100	9.5

WIND GRAPH

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HIL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 3 / DAY

STATION NUMBER: 94814

NO. OBS.: 3229

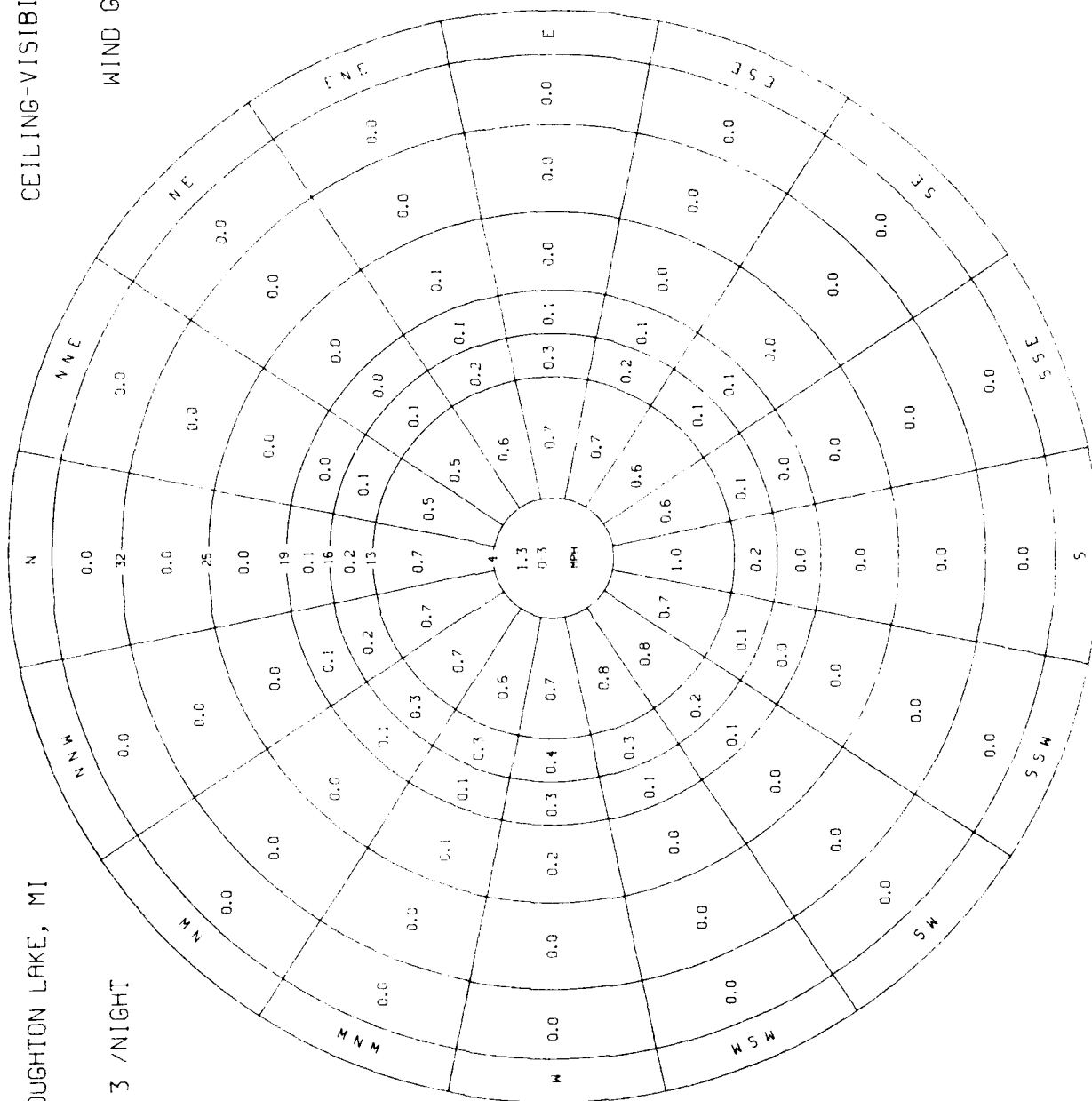
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.3	5.4	.2	1.3	.1	.4	.0	.1	.0	.0	.0	.0	1.1	7.4	10.1
NNE	.0	.1	.5	3.1	.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.6	4.3	10.5
NE	.0	.2	.4	2.7	.1	1.0	.1	.5	.0	.0	.0	.0	.0	.0	.6	4.4	10.7
ENE	.0	.2	.4	2.4	.3	1.9	.1	.7	.0	.2	.0	.0	.0	.0	.8	5.5	11.8
E	.0	.2	.6	4.1	.2	1.4	.1	.8	.0	.2	.0	.0	.0	.0	1.0	6.7	11.0
ESE	.0	.1	.4	3.0	.2	1.2	.1	.6	.0	.1	.0	.0	.0	.0	.7	4.9	11.1
SE	.0	.2	.5	3.3	.1	.9	.1	.5	.0	.0	.0	.0	.0	.0	.7	4.7	10.6
SSE	.0	.2	.5	3.2	.1	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.7	4.5	9.7
S	.0	.2	.9	5.9	.2	1.2	.0	.1	.0	.0	.0	.0	.0	.0	1.1	7.4	9.3
SSW	.0	.3	.5	3.1	.1	.7	.0	.1	.0	.0	.0	.0	.0	.0	.6	4.2	9.4
SW	.0	.1	.7	4.5	.2	1.1	.1	.5	.0	.2	.0	.2	.0	.0	1.0	6.4	11.0
WSW	.0	.2	.6	4.3	.2	1.1	.1	.8	.1	.3	.0	.1	.0	.0	1.0	6.8	11.0
W	.0	.3	.8	5.7	.4	2.6	.3	1.8	.1	.7	.0	.2	.0	.0	1.7	11.2	12.1
WNW	.0	.3	.5	3.6	.3	1.7	.1	1.0	.0	.3	.0	.0	.0	.0	1.0	6.9	11.8
NW	.0	.2	.8	5.1	.2	1.5	.1	.9	.0	.1	.0	.0	.0	.0	1.2	7.8	11.0
NNW	.0	.0	.5	3.1	.3	1.7	.0	.2	.0	.2	.0	.0	.0	.0	.8	5.1	11.1
CALM	.2	1.7													.2	1.7	
TOTAL	.7	4.5	9.3	62.5	3.1	21.0	1.4	9.1	4	2.5	.1	.5	.0	.0	14.8	100	10.7

CEILING-VISIBILITY

WIND GRAPH

HTL HOUGHTON LAKE, MI

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HIL HOUGHTON LAKE, W.

PERIOD: 1965-1978

CLASS: 3 / NIGHT

STATION NUMBER: 94314

NO. OBS.: 3292

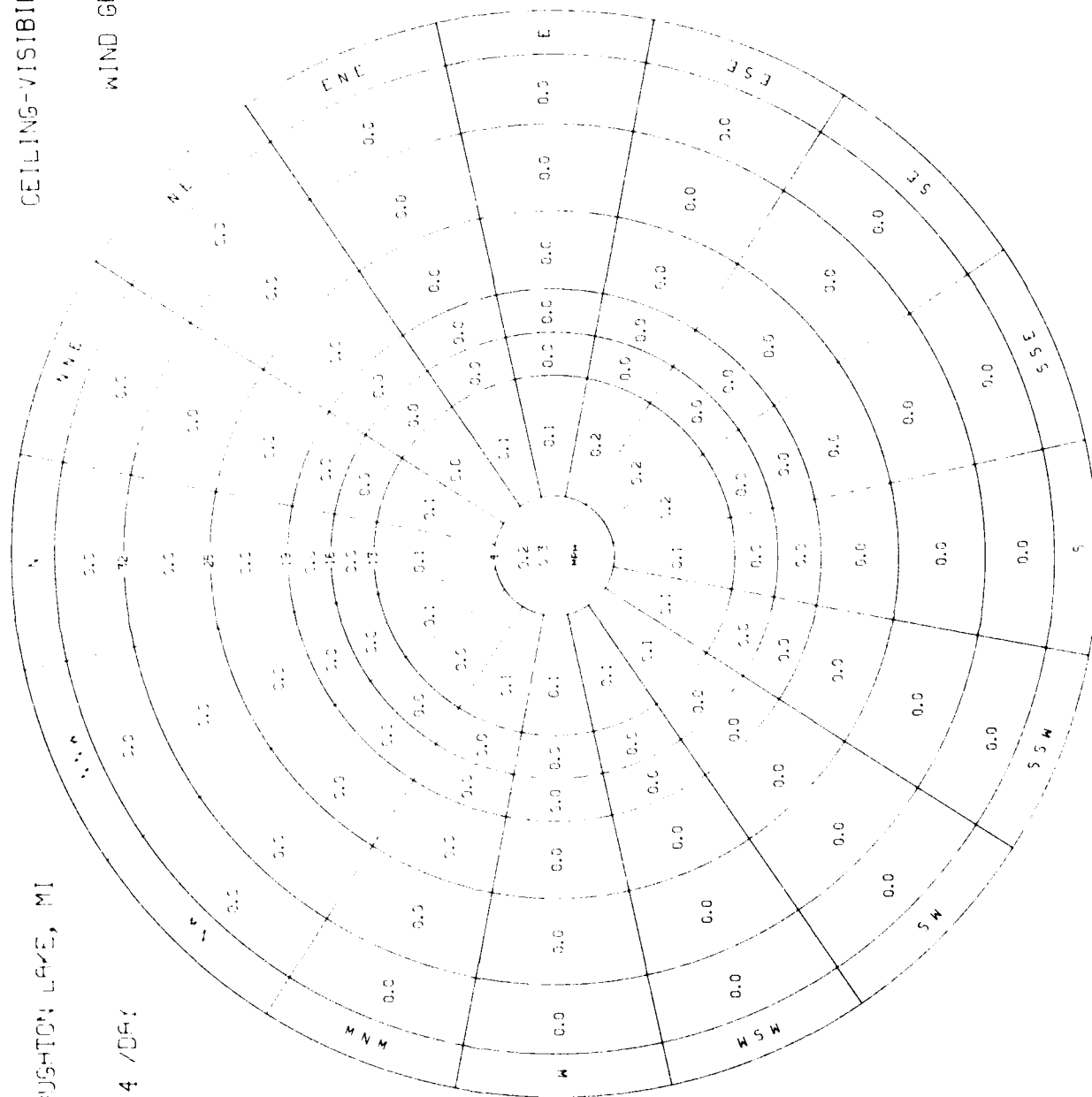
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.7	.5	.7	4.2	.2	1.3	.1	.3	.0	.1	.0	.0	.0	.0	1.1 6.4
NNE	.0	.1	.5	2.9	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.6 3.5
NNE	.0	.1	.5	3.0	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.7 4.1
ENE	.0	.2	.6	3.3	.2	.9	.1	.7	.1	.3	.0	.0	.0	.0	.3 5.4
E	.1	.4	.7	4.2	.3	1.5	.1	.8	.0	.1	.0	.0	.0	.0	1.2 6.9
ESE	.0	.2	.7	3.8	.2	1.3	.1	.5	.0	.1	.0	.0	.0	.0	1.0 5.8
SE	.1	.3	.6	3.3	.1	.9	.1	.3	.0	.1	.0	.0	.0	.0	.8 4.9
SSE	.1	.4	.6	3.4	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.8 4.8
S	.0	.3	1.0	5.6	.2	.9	.0	.2	.0	.0	.0	.0	.0	.0	1.2 7.0
SSW	.0	.1	.7	4.0	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.8 4.8
SW	.1	.3	.8	4.9	.2	1.3	.1	.6	.0	.1	.0	.0	.0	.0	1.2 7.2
WSW	.1	.3	.8	4.5	.3	1.5	.1	.7	.0	.2	.0	.1	.0	.0	1.2 7.3
W	.0	.2	.7	4.3	.4	2.2	.3	1.7	.2	1.2	.0	.3	.0	.0	1.7 9.9
WNW	.0	.2	.6	3.4	.3	1.7	.1	.8	.1	.3	.0	.1	.0	.0	1.1 6.5
NNW	.1	.5	.7	4.2	.3	1.6	.1	.5	.0	.1	.0	.0	.0	.0	1.2 6.9
NNW	.1	.3	.7	3.9	.2	.9	.1	.3	.0	.0	.0	.0	.0	.0	1.0 5.5
CALM	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.5 3.1
TOTAL	3.2	18.4	3.2	18.4	1.4	7.9	.5	2.8	.5	2.8	.1	.5	.0	.0	17.2 10.1

CEILING-VISIBILITY

WIND GRAPH

HTL HOUGHTON LAKE, MI

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1965-1978

STATION NAME: HIL HOUGHTON LAKE, MI

CLASS 4 / DAY

NO. OBS.: 519

STATION NUMBER: 94214

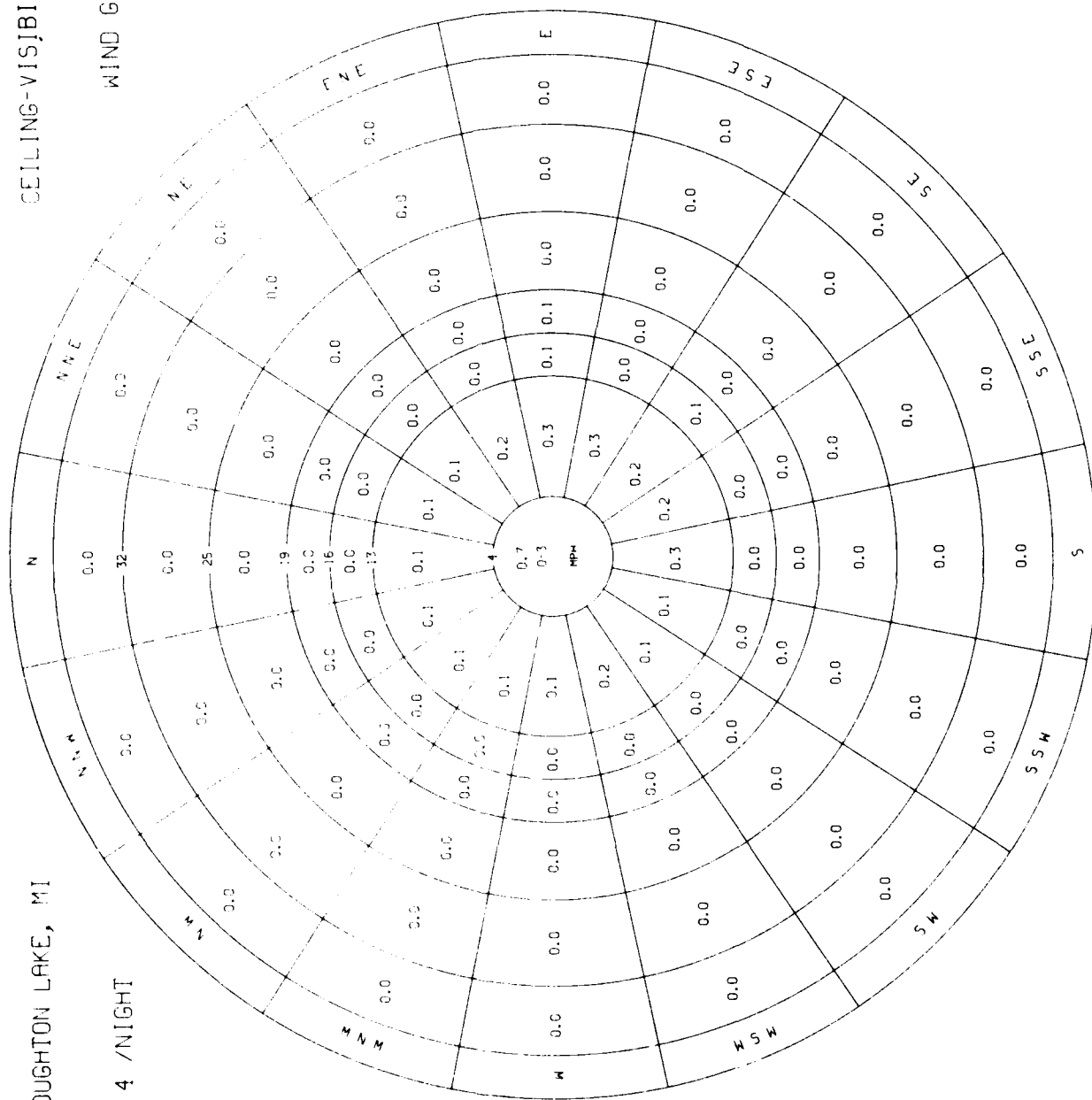
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.1	3.1	.0	.6	.0	1.0	.0	.4	.0	.0	.0	.0	.1	5.2	10.7
NNE	.0	.0	.1	3.1	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.1	4.2	11.0
NE	.0	.2	.0	1.9	.0	1.3	.0	.0	.0	.6	.0	.0	.0	.0	.1	4.0	11.8
ENE	.0	.8	.1	3.7	.0	1.9	.0	.6	.0	.8	.0	.0	.0	.0	.2	7.7	11.4
E	.0	.2	.1	4.8	.0	1.0	.0	1.5	.0	.0	.0	.0	.0	.0	.2	7.5	10.9
ESE	.0	.2	.2	7.1	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.2	9.2	9.5
SE	.0	.4	.2	7.3	.0	1.9	.0	.4	.0	.0	.0	.0	.0	.0	.2	10.0	9.4
SSE	.0	.0	.2	6.6	.0	.6	.0	.4	.0	.0	.0	.0	.0	.0	.2	7.5	9.7
S	.0	.4	.1	5.8	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.2	7.7	8.6
SSW	.0	.2	.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.3	7.9
SW	.0	.4	.1	3.9	.0	.4	.0	.4	.0	.4	.0	.2	.0	.0	.1	5.6	10.1
WSW	.0	.4	.1	2.1	.0	.6	.0	.0	.0	.4	.0	.0	.0	.0	.1	3.5	9.7
W	.0	.2	.1	3.3	.0	.6	.0	.8	.0	.4	.0	.0	.0	.0	.1	5.2	10.8
WNW	.0	.0	.1	3.5	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.1	5.2	10.0
NW	.0	.2	.0	1.5	.0	.8	.0	.6	.0	.2	.0	.0	.0	.0	.1	3.3	11.5
NNW	.0	.0	.1	3.3	.0	1.3	.0	.4	.0	.2	.0	.0	.0	.0	.1	5.2	10.3
CALM	.2	6.6													.2	6.6	
TOTAL	.2	10.2	1.5	63.0	.4	15.4	.2	7.9	.1	3.3	.0	.2	.0	.0	2.4	100	9.5

HTL HOUGHTON LAKE, MI

CEILING-VISIBILITY

WIND GRAPH

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 4 / NIGHT

STATION NUMBER: 94814

NO. OBS.: 799

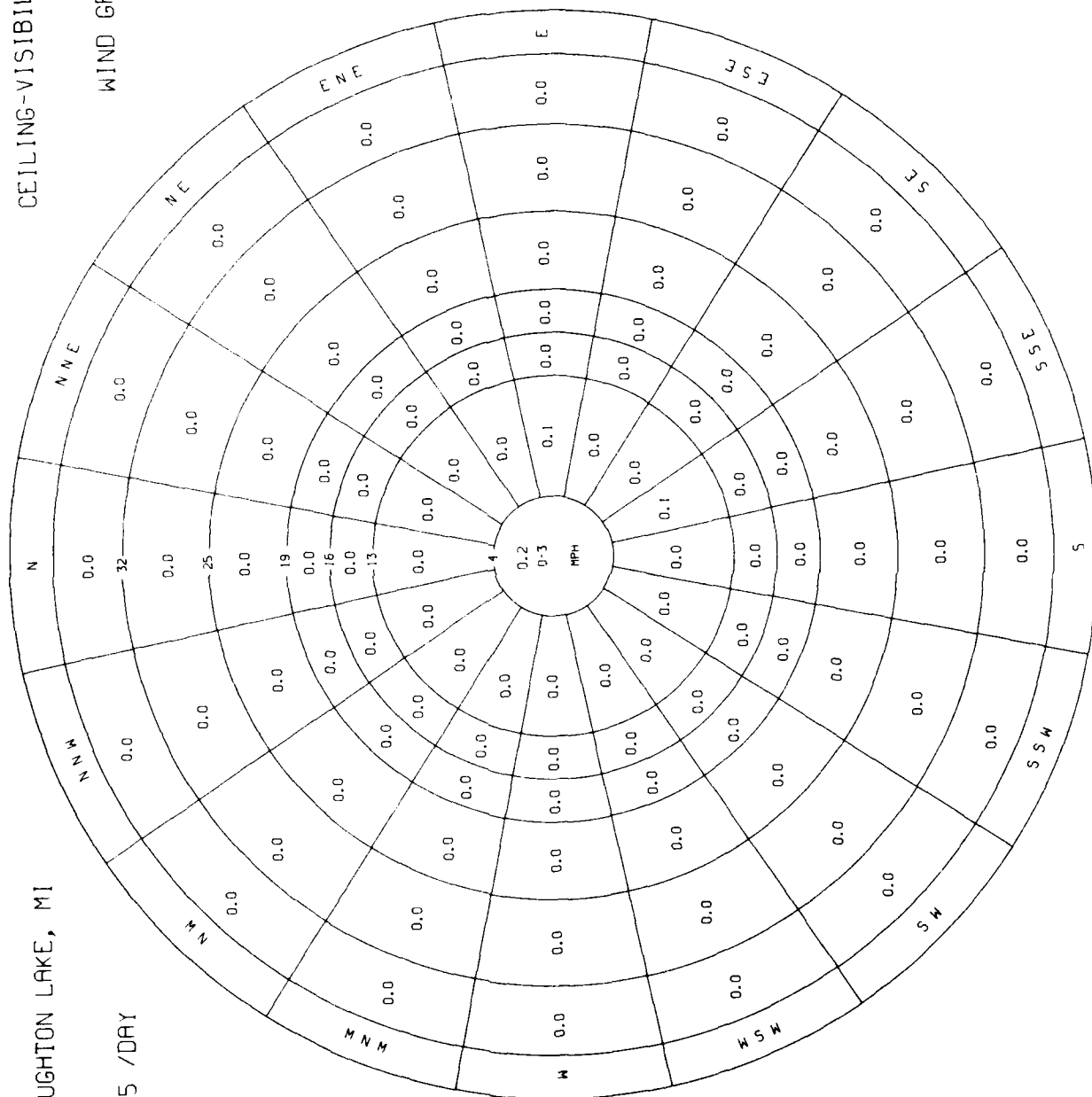
O I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.5	.1	3.3	.0	.3	.0	.1	.0	.5	.0	.1	.0	.0	.2	4.8	9.6
NNE	.0	.4	.1	2.3	.0	.6	.0	.4	.0	.3	.0	.0	.0	.0	.2	3.9	9.7
NE	.0	.5	.1	3.3	.0	.5	.0	.3	.0	.1	.0	.0	.0	.0	.2	4.6	8.9
ENE	.0	1.0	.2	5.4	.0	1.1	.0	.6	.0	.3	.0	.0	.0	.0	.4	8.4	9.2
E	.0	.4	.3	6.5	.1	1.5	.1	1.3	.0	.3	.0	.1	.0	.0	.4	10.0	10.8
ESE	.0	.6	.3	6.1	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.4	8.4	8.7
SE	.0	.3	.2	3.8	.1	1.4	.0	.4	.0	.0	.0	.0	.0	.0	.2	5.8	9.6
SSE	.0	.9	.2	5.8	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.3	7.0	8.2
S	.0	.4	.3	7.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	8.0	7.8
SSW	.0	.3	.1	2.9	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.1	3.5	8.7
SW	.0	.1	.1	3.3	.0	.6	.0	.3	.0	.1	.0	.0	.0	.0	.2	4.4	9.3
WSW	.0	.1	.2	3.9	.0	.4	.0	.5	.0	.6	.0	.0	.0	.0	.2	5.5	10.0
W	.0	.4	.1	2.8	.0	1.1	.0	.1	.0	.8	.0	.1	.0	.0	.2	5.3	11.6
WNW	.0	.5	.1	1.6	.0	.6	.0	.5	.0	.4	.0	.0	.0	.0	.2	3.6	11.0
NW	.0	.4	.1	2.5	.0	.6	.0	.3	.0	.3	.0	.0	.0	.0	.2	4.0	10.0
NNW	.0	.4	.1	2.4	.0	.4	.0	.0	.0	.1	.0	.0	.0	.0	.1	3.3	8.9
CALM	.4	9.6													.4	9.6	
TOTAL	.7	16.6	2.6	63.0	.4	10.8	.2	5.4	.2	3.8	.0	.5	.0	.0	.4	100	8.6

CEILING-VISIBILITY

WIND GRAPH

HTL HOUGHTON LAKE, MI

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HIL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 5 / DAY

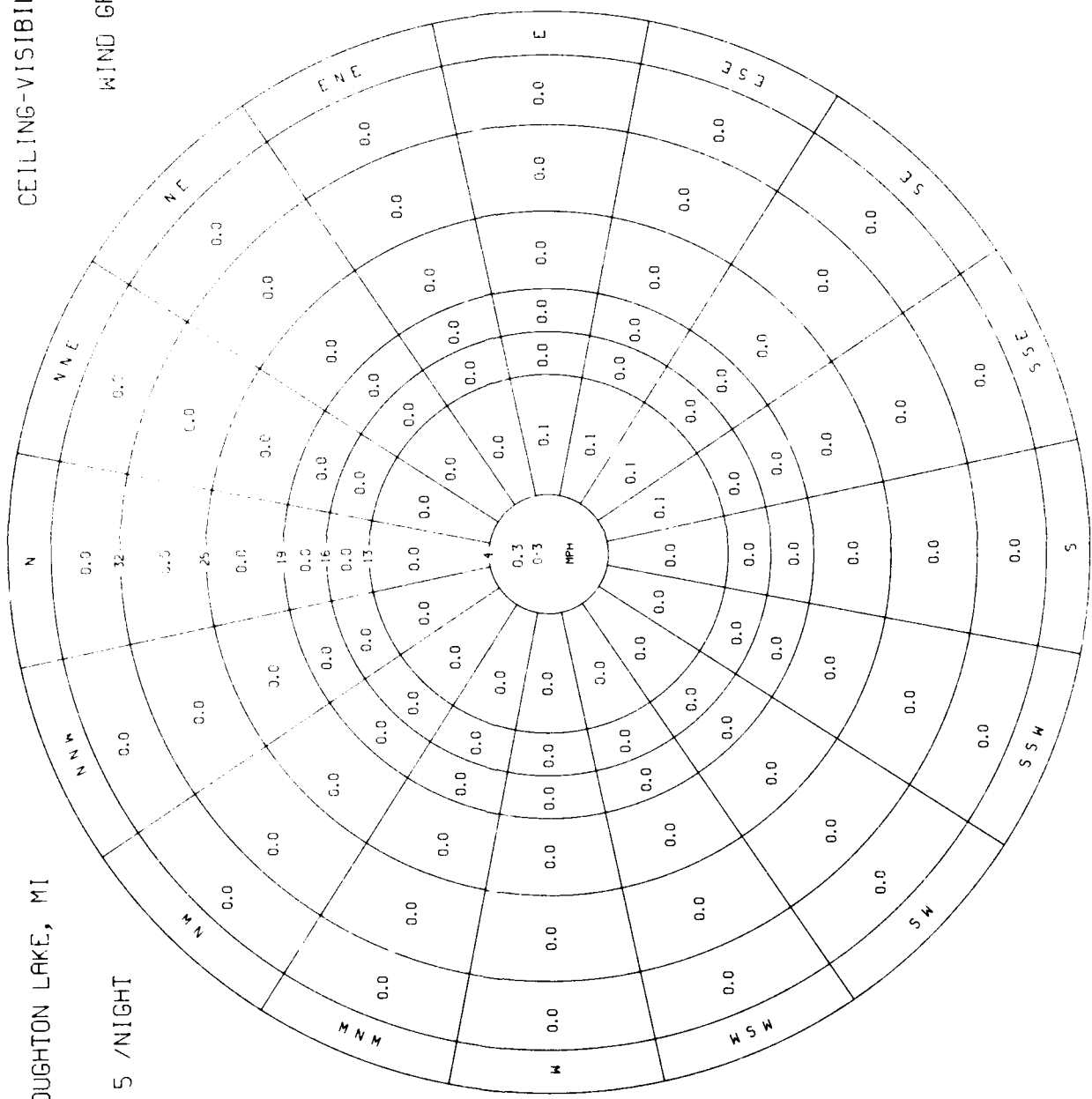
STATION NUMBER: 94814

NO. OBS.: 157

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.6	.0	1.9	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	4.5	9.9
NNE	.0	.0	.0	.6	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	2.5	13.7
NE	.0	.6	.0	1.3	.0	1.9	.0	.6	.0	.6	.0	.0	.0	.0	.0	5.1	11.7
ENE	.0	3.2	.0	3.8	.0	2.5	.0	.0	.0	1.3	.0	.0	.0	.0	.1	10.8	9.1
E	.0	.6	.1	7.6	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.1	10.8	10.1
ESE	.0	.6	.0	4.5	.0	1.3	.0	1.9	.0	.6	.0	.0	.0	.0	.1	8.9	11.3
SE	.0	.6	.0	3.8	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.7	10.1
SSE	.0	.6	.1	7.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.9	8.6
S	.0	.6	.0	5.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.6	8.3
SSW	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.5	10.2
SW	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.7
WSW	.0	1.3	.0	3.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	6.9
W	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.7
WNW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.5	12.7
NW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	8.0
NNW	.0	.0	.0	2.5	.0	1.3	.0	1.3	.0	1.3	.0	.6	.0	.0	.1	7.0	14.8
CALM	.1	10.8													.1	10.8	
TOTAL	.2	21.7	.4	51.6	.1	11.5	.1	7.6	.0	5.7	.0	1.9	.0	.0	.7	100	8.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: WIL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASSE / NIGHT

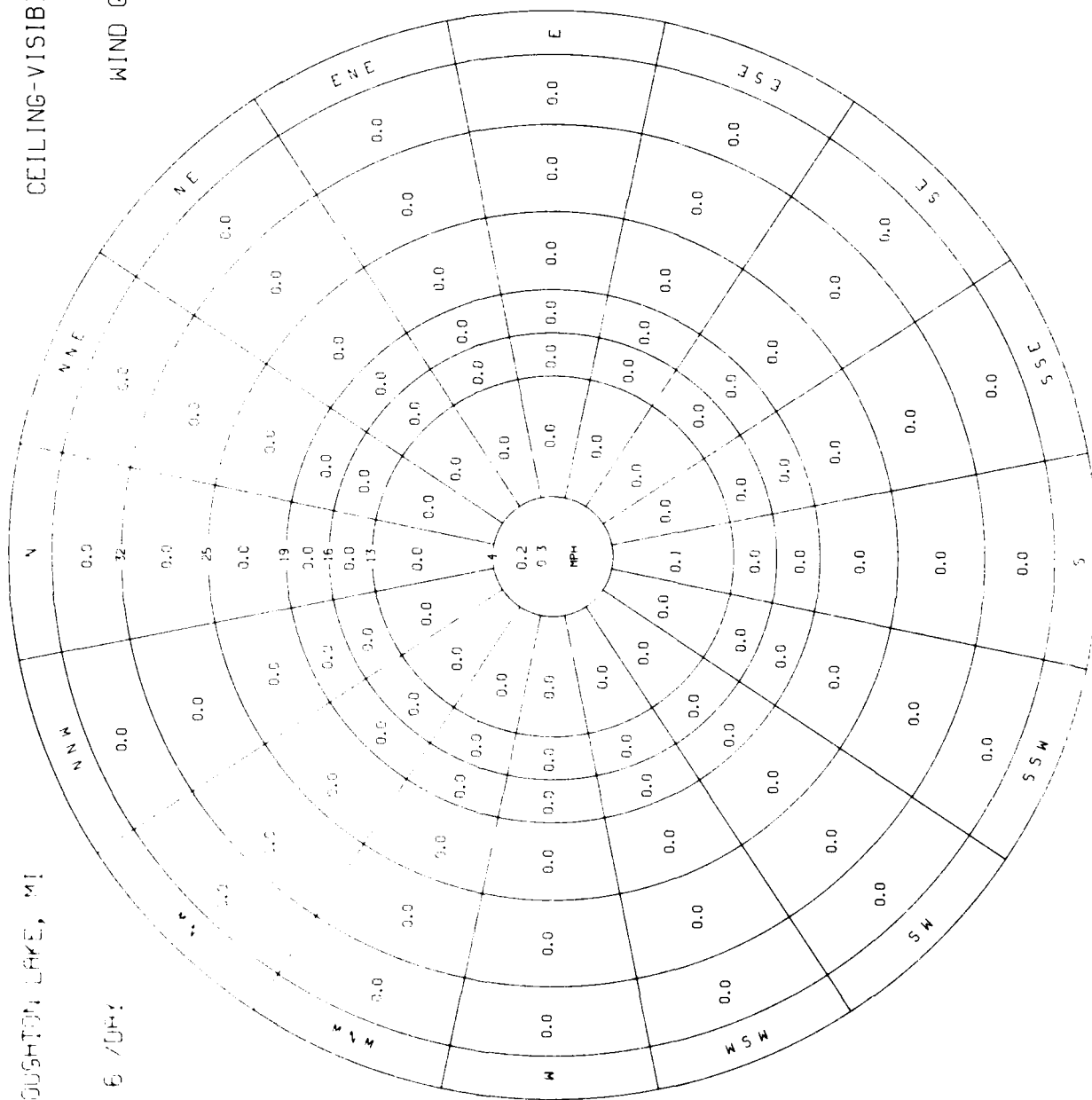
STATION NUMBER: 94814

NO. OBS.: 160

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	17.0
NNE	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	5.5
NE	.0	.6	.0	2.5	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	4.4	7.7
ENE	.0	4.4	.0	3.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.1	5.9
E	.0	2.5	.1	8.7	.0	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.1	13.7	7.6
ESE	.0	1.2	.1	8.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.4	6.8
SE	.0	2.5	.1	7.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.6	7.6
SSE	.0	.6	.1	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.9	6.7
S	.0	1.9	.0	4.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.9	7.1
SSW	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.0
SW	.0	1.2	.0	4.4	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.1	6.3	7.9
WSW	.0	.6	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.7
W	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.4
WNW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.0
NW	.0	.6	.0	1.9	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	3.7	10.8
NNW	.0	1.2	.0	1.2	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	3.7	10.0
CALM	.1	11.2														.1	11.2	
TOTAL	.3	30.0	.5	60.6	.0	5.0	.0	1.9	.0	2.5	.0	.0	.0	.0	.0	.8	100	6.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: H71 HOSGATION LAKE, MI

PERIOD: 1965-1978

1955-1974

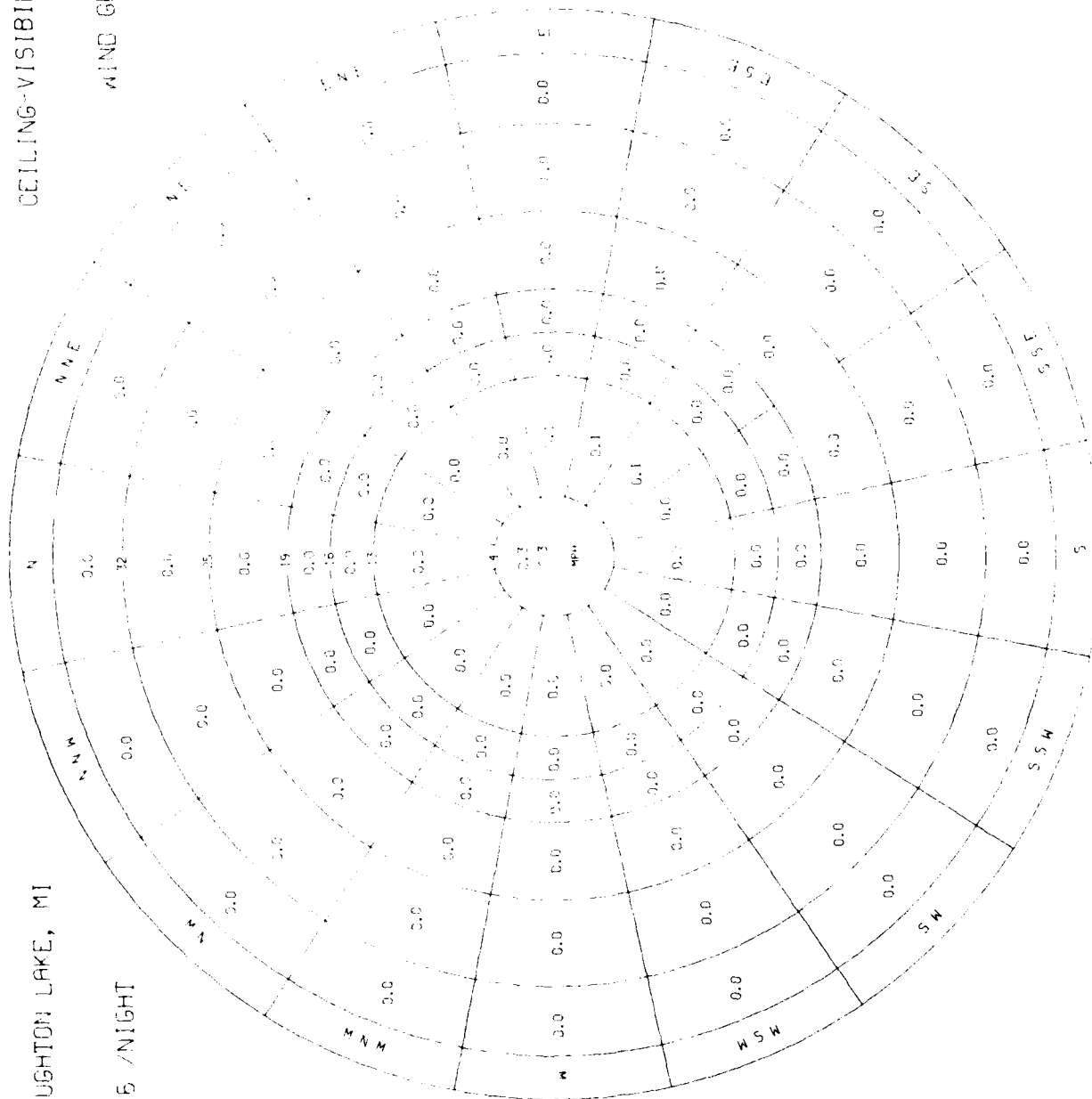
STATION NUMBER: 14214

NO. OBS.: 125

D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED								
	0-3			4-12			13-15			16-18			19-24			25-31				32+			TOTAL				
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C		A	B	C	A	B	C		
N	.0	.8		.0	.2		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	1.6	5.5
NNE	.0	.8		.0	.8		.0	.0		.0	.0		.0	.8		.0	.0		.0	.0		.0	.0		.0	2.4	9.3
NNE	.0	.0		.0	2.4		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	2.4	5.7
ENE	.0	4.0		.0	4.0		.0	.0		.0	.0		.0	.8		.0	.8		.0	.0		.0	.0		.1	9.6	7.8
E	.0	3.2		.0	6.4		.0	.8		.0	.0		.0	.0		.0	.8		.0	.0		.0	.0		.1	11.2	7.5
ESE	.0	.8		.0	3.2		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	4.0	6.0
ESE	.0	1.6		.0	4.8		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	6.4	7.5
ESE	.0	.8		.0	5.6		.0	.0		.0	.8		.0	.0		.0	.0		.0	.0		.0	.0		.0	7.2	7.9
S	.0	2.2		.1	6.8		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.1	12.0	6.3
SSW	.0	1.6		.0	1.6		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	3.2	4.2
SSW	.0	.8		.0	1.6		.0	.0		.0	.0		.0	.0		.0	.8		.0	.0		.0	.0		.0	3.2	10.5
WSW	.0	.8		.0	2.4		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	3.2	7.0
W	.0	.8		.0	5.6		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	7.2	6.6
WNW	.0	.8		.0	.8		.0	.0		.0	.8		.0	.8		.0	.0		.0	.0		.0	.0		.0	3.2	13.0
NW	.0	.0		.0	1.6		.0	.0		.0	.8		.0	.0		.0	.0		.0	.0		.0	.0		.0	2.4	8.7
NNW	.0	.8		.0	.8		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	.0		.0	1.6	4.0
CALM	.0	.0																							.1	19.2	
TOTAL	.0	.0		.0	12.0		.0	.8		.0	2.4		.0	2.4		.0	2.4		.0	.0		.0	.0		.6	100	5.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 6 / 1116-11

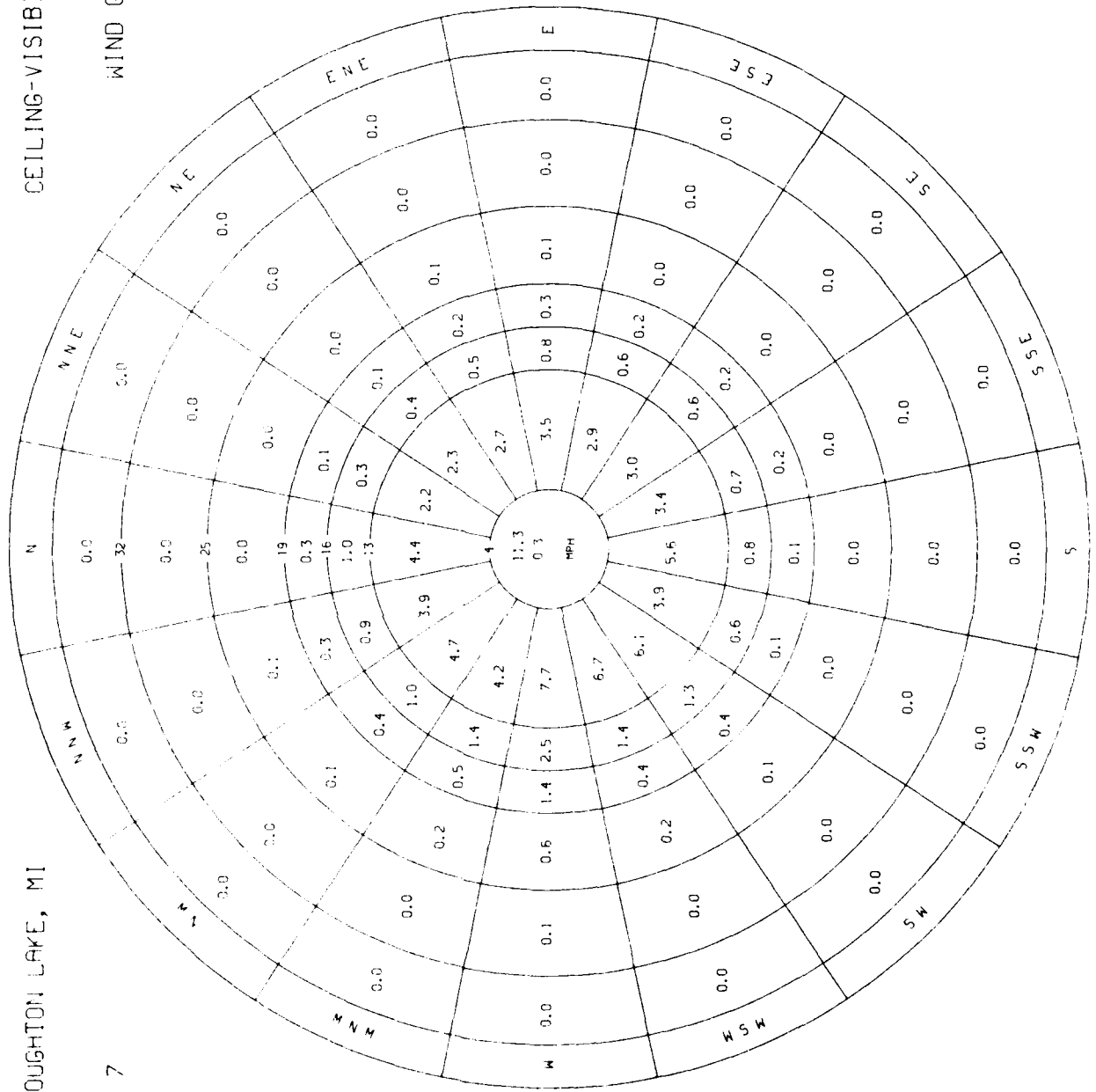
STATION NUMBER: 34314

NO. OBS.: 151

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0
NNE	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0
NENE	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1
ENE	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9
E	.0	.2	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	5.4
ESE	.0	.2	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	5.6
SE	.0	.7	.1	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	8.3
SSE	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0
S	.0	.2	.0	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	7.5
SSW	.0	.0	.0	.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
SW	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	5.0
WSW	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1
W	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1
WNW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7
NW	.0	.7	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.9															
TOTAL	2.3	35.9	5.6	22.7	9.2	2.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	2.8	19.2	5.1

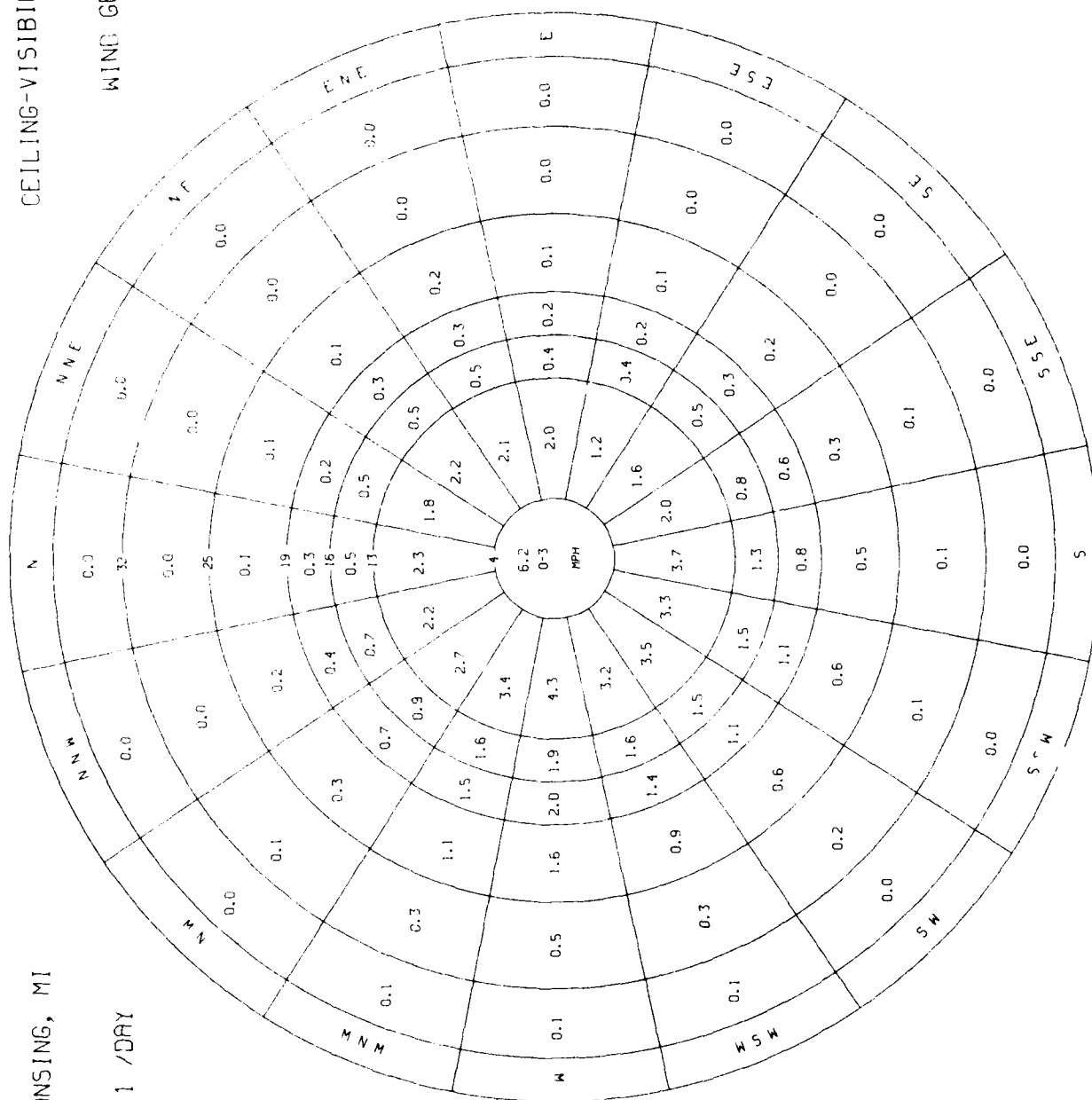
CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 1 / DAY

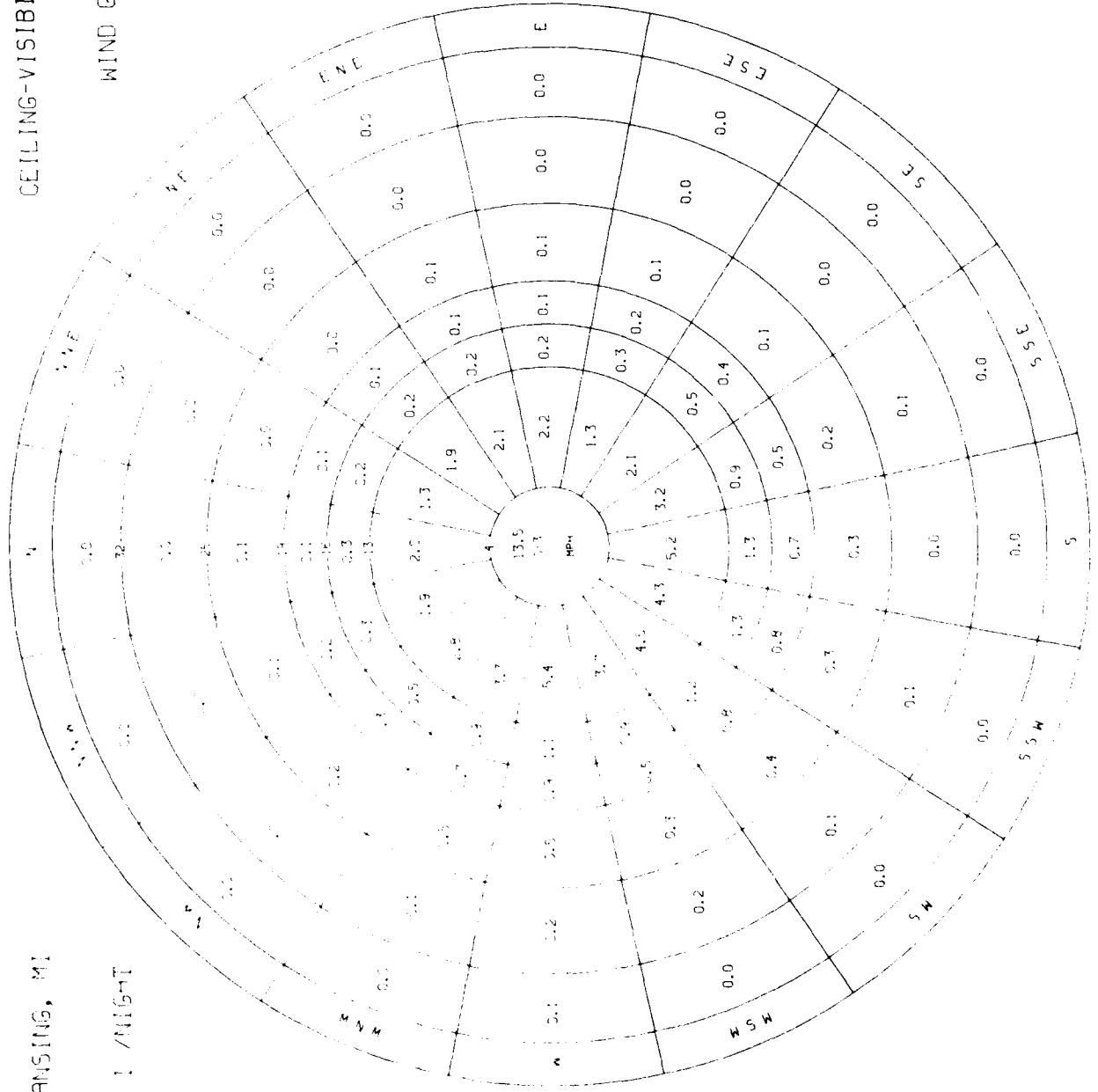
STATION NUMBER: 14836

NO. OBS.: 33087

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	.3	2.3	2.9	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.5 4.1
NNE	.2	.2	1.8	2.2	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.8 3.4
NE	.2	.2	2.2	2.6	.5	.6	.3	.3	.1	.2	.0	.0	.0	.0	3.3 3.9
ENE	.2	.2	2.1	2.5	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	3.3 3.9
E	.2	.3	2.0	2.4	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	2.9 3.5
ESE	.1	.1	1.2	1.5	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.1 2.5
SE	.1	.2	1.6	1.9	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	2.8 3.4
SSE	.1	.2	2.0	2.4	.8	1.0	.6	.7	.3	.4	.1	.1	.0	.0	3.9 4.7
S	.2	.3	3.7	4.4	1.3	1.6	.8	1.0	.5	.6	.1	.1	.0	.0	6.6 8.0
SSW	.2	.2	3.3	4.0	1.5	1.9	1.1	1.3	.6	.7	.1	.1	.0	.0	6.9 8.2
SW	.2	.3	3.5	4.1	1.5	1.8	1.1	1.3	.6	.7	.2	.2	.0	.0	7.0 8.4
WSW	.2	.3	3.2	3.8	1.6	1.9	1.4	1.6	.9	1.1	.3	.4	.1	.1	7.7 9.2
W	.3	.4	4.3	5.2	1.9	2.3	2.0	2.4	1.6	1.9	.5	.6	.1	.1	10.7 12.9
WNW	.2	.3	3.4	4.1	1.6	1.9	1.5	1.8	1.1	1.3	.3	.4	.1	.1	8.1 9.7
NW	.2	.3	2.7	3.2	.9	1.1	.7	.8	.3	.4	.1	.1	.0	.0	5.0 6.0
NNW	.2	.2	2.2	2.6	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	3.7 4.5
CALM	3.1	3.7													3.1 3.7
TOTAL	5.2	7.4	41.5	49.7	15.1	18.1	11.5	13.7	7.0	8.4	1.8	2.2	.4	.4	83.5 100

CEILING-VISIBILITY
WIND GRAPH

LAN LANSING, MI
CLASS 1 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS : /NIGHT

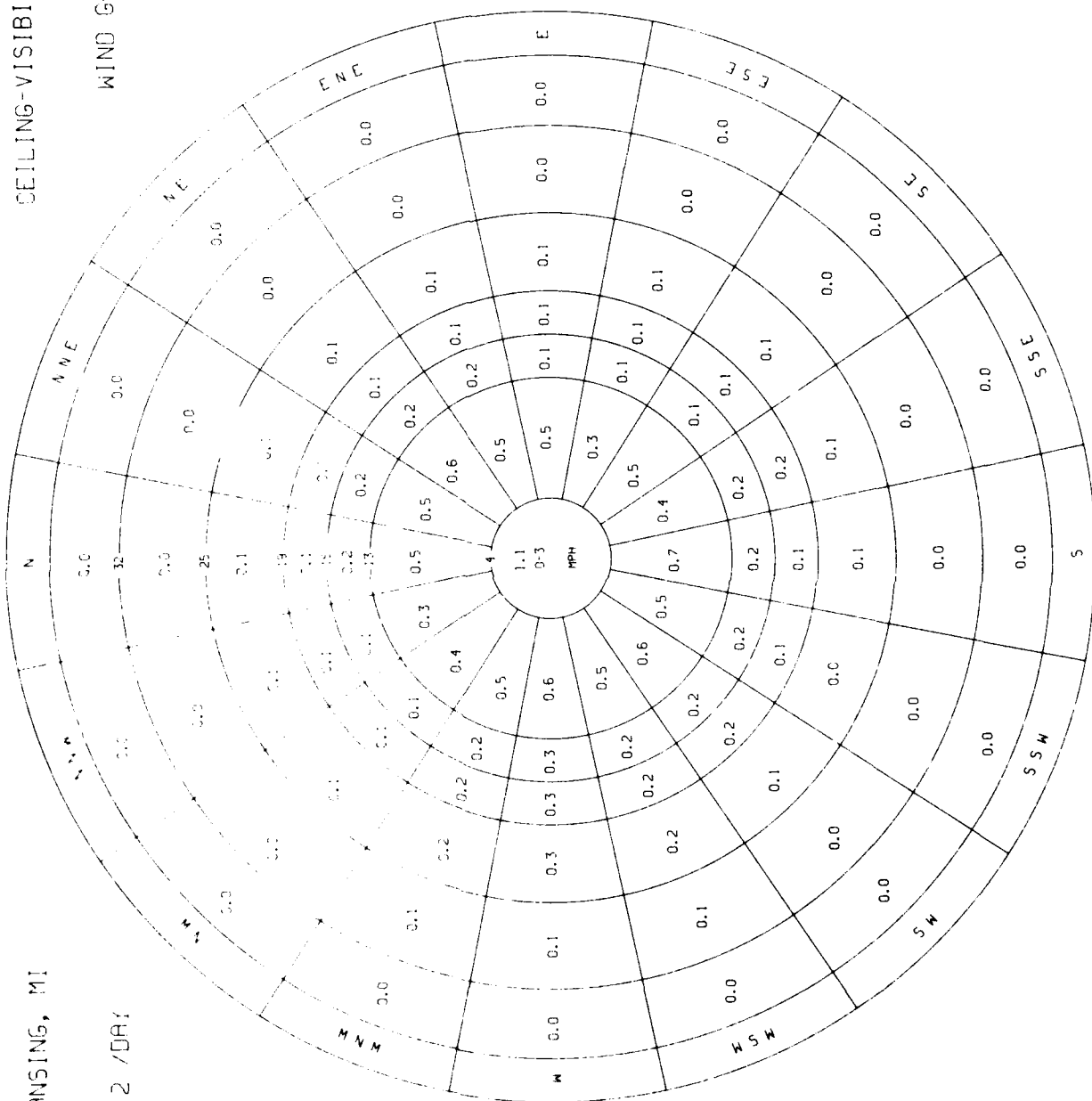
STATION NUMBER: 14836

NO. OBS.: 27494

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.3	.3	2.0	2.4	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	2.7	3.3	8.6
NNE	.2	.2	1.3	1.6	.2	.2	.1	.1	.0	.1	.0	.0	.0	.0	1.9	2.3	8.6
NE	.3	.3	1.9	2.3	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	2.6	3.2	8.3
ENE	.3	.4	2.1	2.5	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.8	3.4	8.4
E	.4	.5	2.2	2.6	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	3.0	3.6	8.0
ESE	.2	.2	1.3	1.6	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.0	2.4	9.7
SE	.3	.3	2.1	2.6	.5	.6	.4	.4	.1	.2	.0	.0	.0	.0	3.4	4.1	10.3
SSE	.2	.3	3.2	3.9	.9	1.1	.5	.7	.2	.3	.1	.1	.0	.0	5.1	6.2	11.0
S	.3	.4	5.2	6.3	1.3	1.5	.7	.8	.3	.4	.0	.0	.0	.0	7.8	9.5	10.4
SSW	.3	.4	4.3	5.3	1.3	1.6	.8	.9	.3	.4	.1	.1	.0	.0	7.1	8.6	10.9
SW	.5	.6	4.5	5.4	1.2	1.5	.8	.9	.4	.5	.1	.1	.0	.0	7.4	9.1	10.6
WSW	.3	.3	3.7	4.5	.9	1.0	.5	.6	.3	.4	.2	.2	.0	.1	5.9	7.1	11.0
W	.5	.6	5.4	6.6	1.1	1.3	.9	1.1	.5	.6	.2	.3	.1	.1	8.8	10.7	10.8
WNW	.4	.5	3.7	4.5	.9	1.1	.7	.9	.5	.6	.1	.2	.0	.0	6.3	7.7	11.1
NW	.3	.3	2.8	3.4	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	4.0	4.9	9.6
NNW	.2	.3	1.9	2.3	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	2.7	3.3	9.4
CALM	8.7	10.6													8.7	10.6	
TOTAL	12.5	16.5	47.6	57.8	10.1	12.3	6.6	8.0	3.3	4.0	.9	1.1	.2	.2	82.3	100	9.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAR. LANSING, MI

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 14836

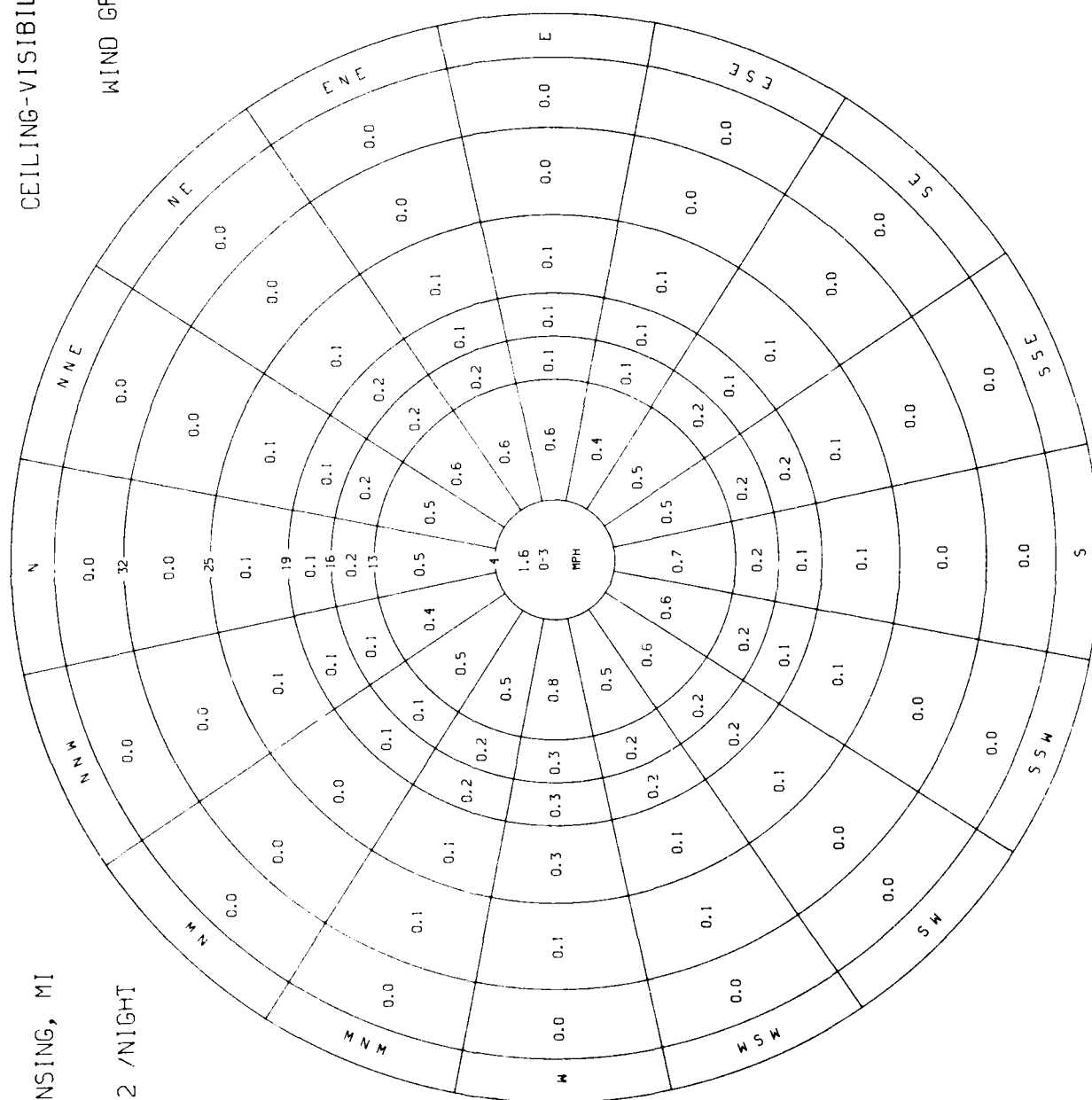
NO. OBS.: 6529

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.2	.5	3.3	.2	1.0	.1	.7	.1	.3	.0	.0	.0	.0	.0	.9	5.6	11.3
NNE	.0	.1	.5	3.0	.2	1.1	.1	.8	.1	.7	.0	.2	.0	.0	.0	1.0	5.9	12.7
NNE	.1	.4	.6	3.9	.2	1.4	.1	.9	.1	.4	.0	.2	.0	.0	.0	1.2	7.2	11.7
ENE	.0	.2	.5	3.3	.2	1.2	.1	.8	.1	.4	.0	.2	.0	.1	.0	1.0	6.0	12.0
E	.0	.3	.5	3.2	.1	.7	.1	.5	.1	.4	.0	.1	.0	.0	.0	.9	5.2	10.9
ESE	.0	.2	.3	1.8	.1	.6	.1	.7	.1	.3	.0	.1	.0	.0	.0	.6	3.8	12.4
SE	.0	.2	.5	2.8	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.0	.8	5.1	12.1
SSE	.0	.1	.4	2.3	.2	1.2	.2	1.0	.1	.6	.0	.1	.0	.0	.0	.9	5.3	13.0
S	.0	.2	.7	4.1	.2	1.4	.1	.9	.1	.4	.0	.0	.0	.0	.0	1.1	6.9	11.3
SSW	.0	.1	.5	3.2	.2	1.2	.1	.9	.0	.2	.0	.1	.0	.0	.0	1.0	5.8	11.6
SW	.0	.2	.6	3.4	.2	1.3	.2	1.1	.1	.6	.0	.2	.0	.1	.0	1.1	6.8	12.6
WSW	.0	.2	.5	3.3	.2	1.2	.2	1.2	.2	1.0	.1	.3	.0	.1	.0	1.2	7.3	13.6
W	.1	.3	.6	3.8	.3	1.7	.3	1.5	.3	1.8	.1	.4	.0	.1	.0	1.6	9.6	14.0
WNW	.0	.2	.5	3.0	.2	1.1	.2	1.3	.2	1.1	.1	.3	.0	.1	.0	1.2	7.2	13.8
NW	.0	.2	.4	2.4	.1	.7	.1	.7	.1	.4	.0	.1	.0	.1	.0	.7	4.5	12.2
NNW	.0	.2	.3	2.0	.1	.6	.1	.7	.1	.4	.0	.1	.0	.0	.0	.7	4.0	12.2
CALM	.6	3.8														.6	3.8	
TOTAL	1.1	7.0	8.1	48.9	2.8	17.2	2.4	14.4	1.5	9.3	.4	2.6	.1	.6	.1	16.5	100	12.0

WIND GRAPH

LAN LANSING, MI

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 2 / NIGHT

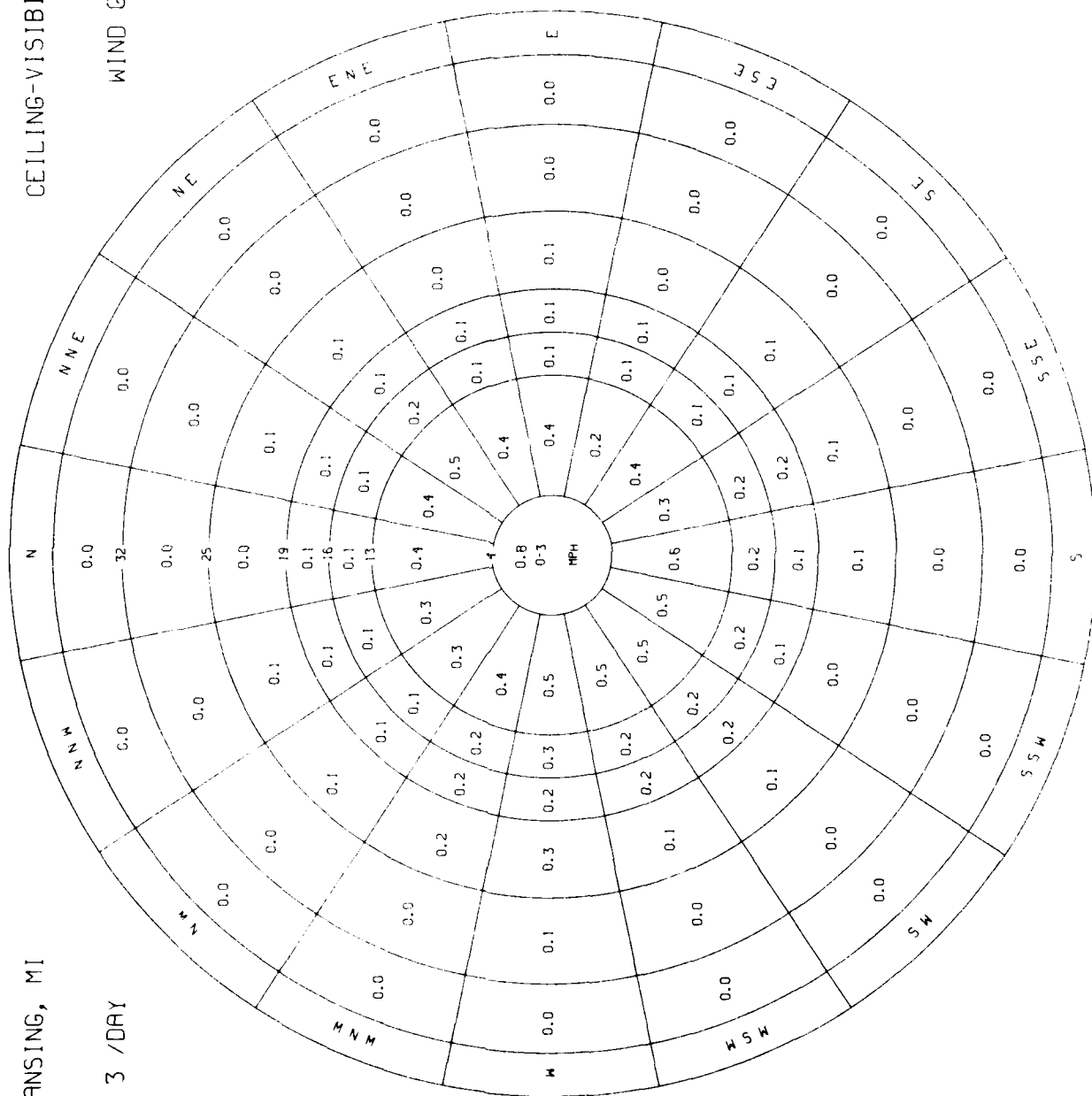
STATION NUMBER: 14936

NO. OBS.: 5933

D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.3	.5	2.9	.2	1.1	.1	.6	.1	.4	.0	.1	.0	.0	.9	5.3	11.1		
NNE	.0	.2	.5	2.7	.2	1.0	.1	.7	.1	.4	.0	.2	.0	.0	.9	5.3	12.1		
NE	.1	.3	.6	3.5	.2	1.3	.2	.9	.1	.6	.0	.2	.0	.0	1.2	6.9	12.1		
ENE	.1	.3	.6	3.7	.2	1.0	.1	.7	.1	.5	.0	.2	.0	.0	1.1	6.3	11.4		
E	.1	.3	.6	3.5	.1	.8	.1	.5	.1	.3	.0	.1	.0	.0	1.0	5.5	10.3		
ESE	.0	.1	.4	2.1	.1	.8	.1	.5	.1	.4	.0	.1	.0	.0	.7	3.9	12.1		
SE	.0	.1	.5	2.8	.2	.9	.1	.8	.1	.5	.0	.0	.0	.0	.9	5.2	11.9		
SSE	.0	.2	.5	3.0	.2	1.0	.2	1.0	.1	.3	.0	.0	.0	.0	1.0	5.5	11.9		
S	.1	.3	.7	3.9	.2	1.0	.1	.7	.1	.4	.0	.1	.0	.0	1.1	6.4	11.0		
SSW	.0	.2	.6	3.4	.2	1.0	.1	.7	.1	.4	.0	.0	.0	.0	1.0	5.7	11.2		
SW	.0	.3	.6	3.5	.2	1.3	.2	1.3	.1	.4	.0	.1	.0	.0	1.2	6.9	12.1		
WSW	.0	.1	.5	2.8	.2	1.1	.2	1.3	.1	.8	.1	.4	.0	.1	1.2	6.7	13.8		
W	.0	.3	.8	4.5	.3	1.7	.3	1.6	.3	1.6	.1	.5	.0	.1	1.8	10.3	13.8		
WNW	.0	.2	.5	3.0	.2	.9	.2	1.2	.1	.6	.1	.4	.0	.0	1.1	6.3	12.8		
NW	.1	.3	.5	2.5	.1	.6	.1	.5	.0	.3	.0	.1	.0	.0	.8	4.5	11.2		
NNW	.0	.1	.4	2.2	.1	.7	.1	.7	.1	.4	.0	.1	.0	.1	.7	4.1	12.4		
CALM	.9	5.3													.9	5.3			
TOTAL	1.6	8.8	8.9	50.3	2.9	16.3	2.4	13.6	1.5	8.2	.4	2.5	.1	.4	17.7	100	11.4		

CEILING-VISIBILITY WIND GRAPH

LAN LANSING, MI
CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: JAN. LAUNING, MO.

CLASS 3 / DAY

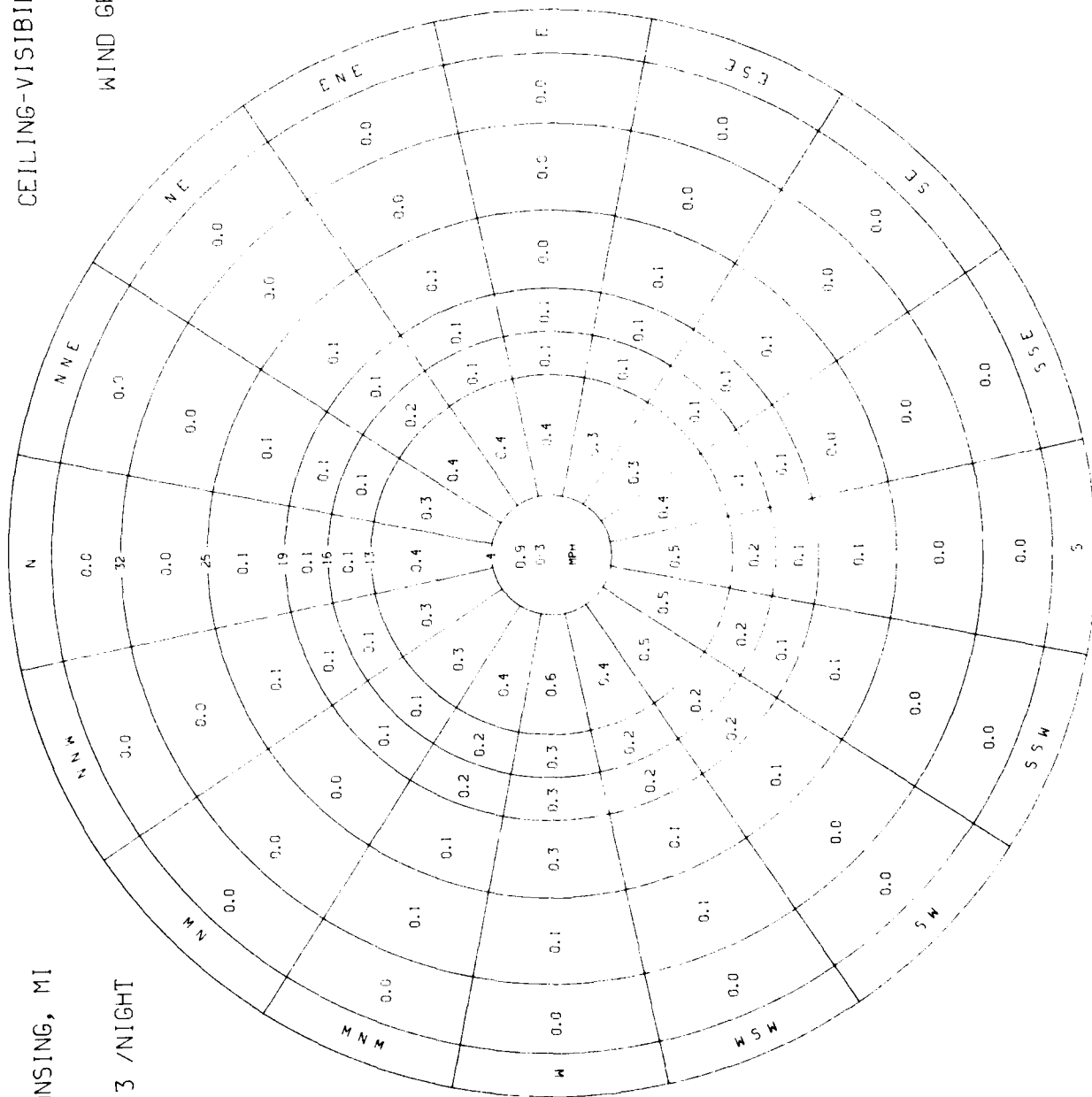
NO. OBS.: 5356

STATION NUMBER: 14836

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.4	3.0	.1	1.1	.1	.8	.0	.3	.0	.1	.0	.0	.7 5.3
NNE	.0	.1	.4	2.8	.1	1.0	.1	.8	.1	.6	.0	.1	.0	.0	.7 5.4
NNE	.0	.3	.5	3.7	.2	1.3	.1	.8	.1	.4	.0	.2	.0	.0	.9 6.7
ENE	.0	.1	.4	3.0	.1	1.1	.1	.8	.0	.3	.0	.2	.0	.1	.8 5.6
E	.0	.1	.4	2.8	.1	.6	.1	.5	.1	.4	.0	.1	.0	.0	.6 4.5
ESE	.0	.2	.2	1.8	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.5 3.8
ESE	.0	.2	.4	2.8	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.7 5.2
SSE	.0	.1	.3	2.2	.2	1.3	.2	1.1	.1	.5	.0	.0	.0	.0	.7 5.3
S	.0	.2	.6	4.1	.2	1.4	.1	1.0	.1	.5	.0	.0	.0	.0	1.0 7.2
SSW	.0	.1	.5	3.5	.2	1.4	.1	1.0	.0	.3	.0	.1	.0	.0	.9 6.4
SW	.0	.2	.5	3.6	.2	1.4	.2	1.3	.1	.7	.0	.2	.0	.1	1.0 7.4
WSW	.0	.1	.5	3.4	.2	1.3	.2	1.4	.1	1.1	.0	.4	.0	.1	1.1 7.8
W	.0	.2	.5	3.8	.3	1.9	.2	1.8	.3	2.0	.1	.4	.0	.1	1.4 10.2
WNW	.0	.2	.4	3.1	.2	1.3	.2	1.5	.2	1.3	.0	.3	.0	.1	1.0 7.7
NW	.0	.1	.3	2.4	.1	.7	.1	.7	.1	.4	.0	.1	.0	.0	.6 4.5
NNW	.0	.3	.3	1.9	.1	.7	.1	.7	.1	.4	.0	.1	.0	.0	.5 4.0
CALM	.4	2.9													.4 2.9
TOTAL	.8	5.6	6.5	47.7	2.4	18.1	2.1	15.6	1.3	9.9	.3	2.6	.1	.5	13.5 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

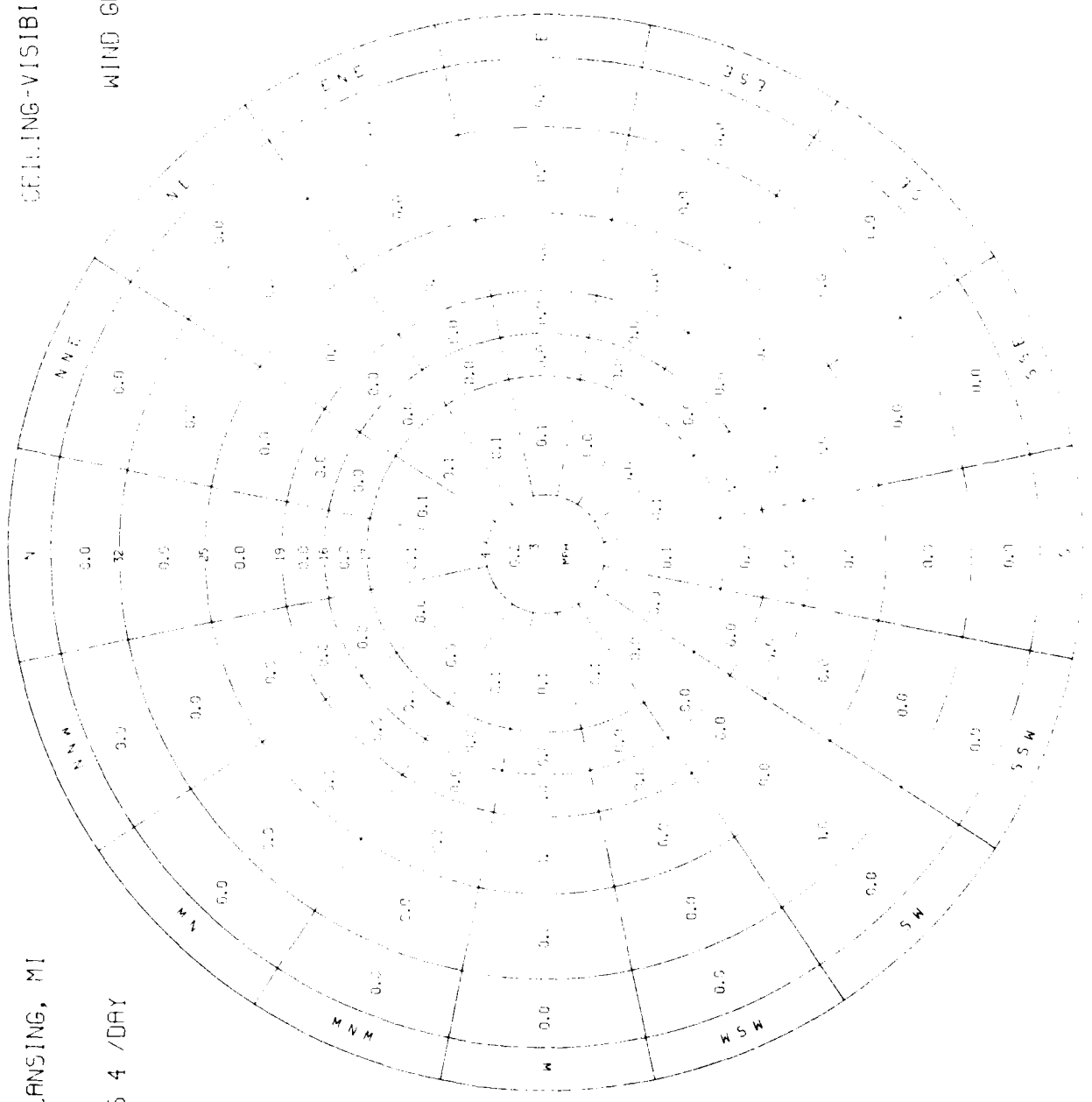
CLASS 3 NIGHT

STATION NUMBER: 14836

NO. OBS.: 4583

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.4	2.3	.1	1.0	.1	.5	.1	.4	.0	.1	.0	.0	.7 5.1
NNE	.0	.2	.3	2.4	.1	1.0	.1	.8	.1	.4	.0	.1	.0	.0	.7 4.9
NNE	.0	.2	.4	3.2	.2	1.2	.1	.8	.1	.6	.0	.1	.0	.0	.8 6.1
ENE	.0	.2	.4	3.0	.1	.9	.1	.7	.1	.5	.0	.2	.0	.0	.8 5.7
E	.0	.2	.4	2.7	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.6 4.6
ESE	.0	.0	.3	2.0	.1	.8	.1	.4	.1	.4	.0	.1	.0	.0	.5 3.8
SE	.0	.1	.4	2.5	.1	1.0	.1	.9	.1	.4	.0	.0	.0	.0	.7 4.9
SSE	.0	.1	.4	3.1	.1	1.0	.1	1.0	.0	.3	.0	.0	.0	.0	.8 5.7
S	.0	.2	.5	4.0	.2	1.1	.1	.7	.1	.5	.0	.1	.0	.0	.9 6.6
SSW	.0	.2	.5	3.6	.2	1.2	.1	.9	.1	.4	.0	.0	.0	.0	.9 6.4
SW	.0	.2	.5	3.8	.2	1.5	.2	1.6	.1	.5	.0	.1	.0	.0	1.1 7.8
WSW	.0	.1	.4	3.0	.2	1.3	.2	1.5	.1	1.0	.1	.5	.0	.1	1.0 7.5
W	.0	.2	.6	4.6	.3	2.0	.3	2.0	.3	2.1	.1	.6	.0	.2	1.6 11.0
WNW	.0	.3	.4	3.1	.2	1.1	.2	1.5	.1	.7	.1	.4	.0	.0	1.0 7.2
NW	.0	.2	.3	2.3	.1	.8	.1	.6	.0	.3	.0	.2	.0	.0	.6 4.3
NNW	.0	.0	.3	2.2	.1	.7	.1	.7	.1	.4	.0	.1	.0	.0	.6 4.2
CALM	.5	3.7													.5 3.7
TOTAL	.9	6.4	6.6	48.3	2.4	17.6	2.1	15.2	1.3	9.2	.4	2.9	.1	.4	13.7 10.1

CEILING-VISIBILITY
WIND GRAPH



LAN LANSING, MI

CLASS 4 / DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: LAM LANSING, MI

CLASS 4 / DAY

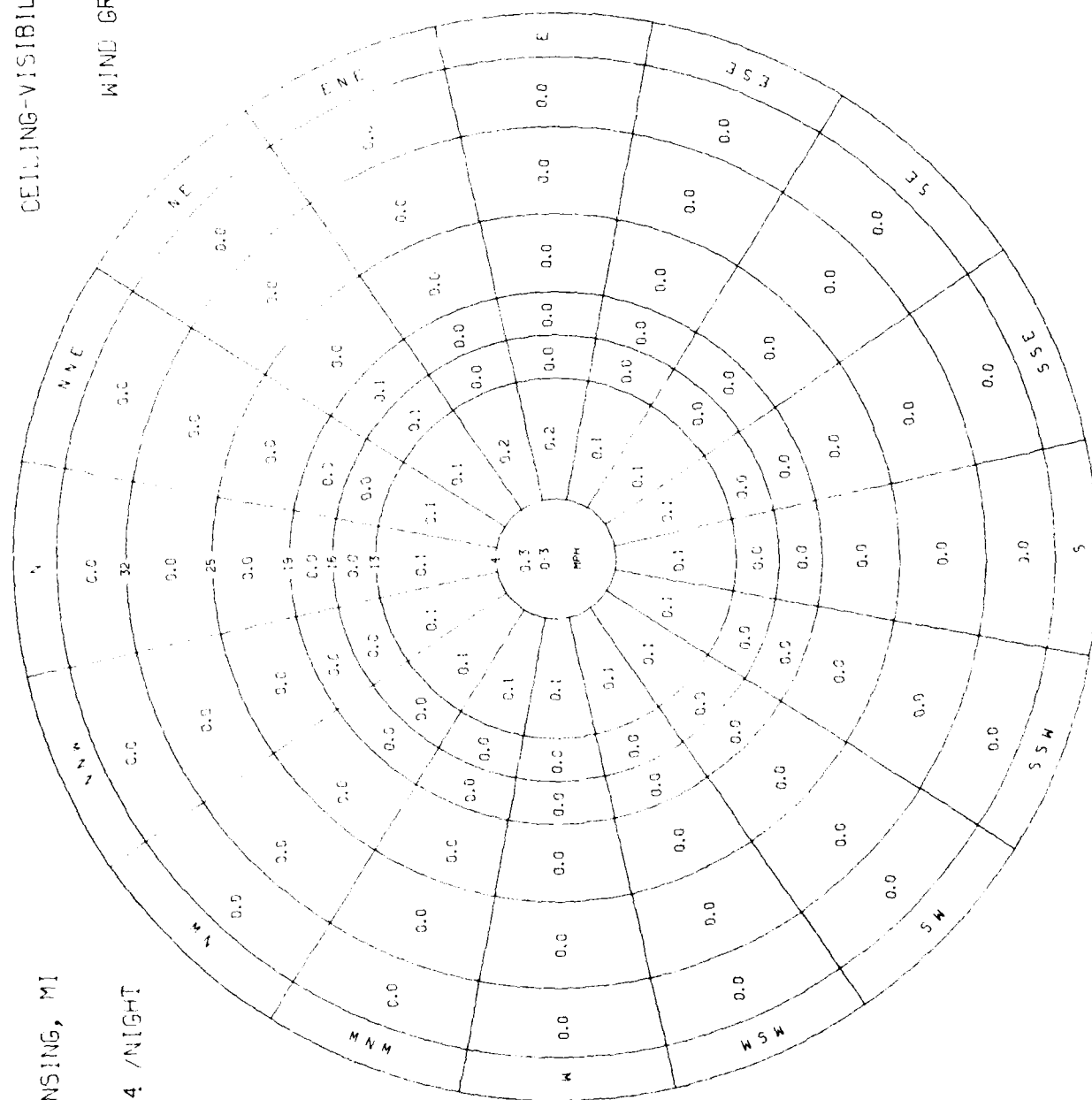
NO. OBS.: 800

STATION NUMBER: 14536

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.1	.1	5.0	.0	.4	.0	.7	.0	.2	.0	.0	.0	.0	.0	.1	6.5	10.3
NNE	.0	.4	.1	4.1	.0	1.2	.0	1.0	.0	.9	.0	.6	.0	.0	.0	.2	8.2	12.8
NE	.0	.1	.1	4.5	.0	2.0	.0	2.1	.0	.7	.0	.1	.0	.0	.0	.2	9.6	12.8
ENE	.0	.2	.1	5.0	.0	1.9	.0	1.0	.0	.6	.0	.4	.0	.0	.0	.2	9.1	11.7
E	.0	.5	.1	5.4	.0	1.5	.0	.6	.0	.4	.0	.1	.0	.0	.0	.2	8.5	10.1
ESE	.0	.1	.0	2.2	.0	.4	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.1	4.2	12.1
SE	.0	.0	.0	2.2	.0	.6	.0	.7	.0	.6	.0	.0	.0	.0	.0	.1	4.2	12.5
SSE	.0	.2	.1	3.1	.0	1.4	.0	.4	.0	.7	.0	.2	.0	.0	.0	.1	6.1	12.5
S	.0	.0	.1	3.5	.0	1.5	.0	.2	.0	.0	.0	.2	.0	.0	.0	.1	5.5	11.3
SSW	.0	.1	.0	1.9	.0	.5	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	2.9	10.1
SW	.0	.2	.0	2.2	.0	.7	.0	.1	.0	.2	.0	.0	.0	.0	.2	.1	3.9	11.2
WSW	.0	.2	.1	2.5	.0	.7	.0	.2	.0	.9	.0	.2	.0	.1	.1	.1	5.0	13.1
W	.0	.4	.1	3.9	.0	.4	.0	.7	.0	1.0	.0	.1	.0	.2	.1	.1	6.7	12.2
WNW	.0	.1	.1	2.5	.0	.7	.0	.7	.0	.6	.0	.4	.0	.0	.0	.1	5.1	13.3
NW	.0	.2	.0	2.2	.0	1.0	.0	.4	.0	.4	.0	.4	.0	.1	.1	.1	4.7	13.1
NNW	.0	.0	.0	2.4	.0	.2	.0	.7	.0	.4	.0	.5	.0	.0	.0	.1	4.2	12.8
CALC	.1	5.2														.1	5.2	
TOTAL	.2	8.4	1.1	52.7	.3	15.2	.2	11.1	.2	8.2	.1	3.5	.0	.7	2.0	100		11.3

WIND GRAPH

CLASS 4 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 4 / NIGHT

STATION NUMBER: 14836

NO. OBS.: 887

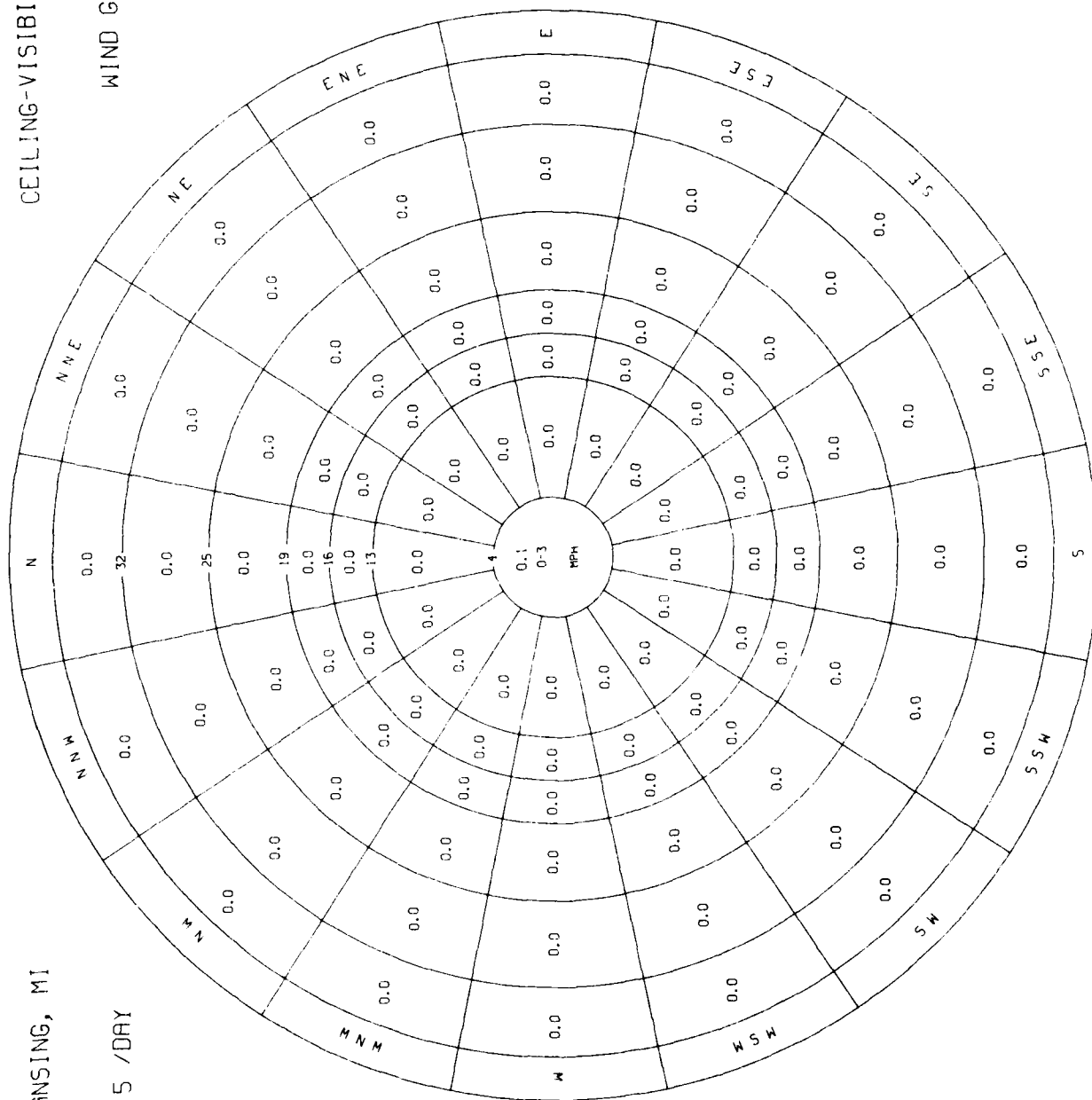
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.1	3.5	.0	1.5	.0	.6	.0	.5	.0	.0	.0	.0	.2 6.7 10.3
NNE	.0	.1	.1	4.4	.0	1.6	.0	.6	.0	.6	.0	.5	.0	.0	.2 7.7 12.0
NE	.0	.1	.1	3.6	.1	2.1	.1	1.9	.0	1.0	.0	.5	.0	.0	.2 9.2 13.8
ENE	.0	.2	.2	6.4	.0	1.1	.0	.8	.0	.5	.0	.0	.0	.1	.2 9.1 10.4
E	.0	.1	.2	6.4	.0	1.1	.0	.3	.0	.6	.0	.0	.0	.0	.2 8.6 9.6
ESE	.0	.2	.1	2.4	.0	.6	.0	.8	.0	.3	.0	.0	.0	.0	.1 4.3 11.2
SE	.0	.5	.1	4.2	.0	1.0	.0	.9	.0	.8	.0	.0	.0	.0	.2 7.3 11.2
SSE	.0	.3	.1	2.6	.0	1.4	.0	.8	.0	.2	.0	.0	.0	.1	.1 5.4 12.1
S	.0	.2	.1	3.8	.0	.7	.0	1.0	.0	.2	.0	.0	.0	.0	.2 6.0 10.3
SSW	.0	.1	.1	2.7	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.1 3.5 10.0
SW	.0	.3	.1	2.4	.0	.6	.0	.2	.0	.1	.0	.0	.0	.0	.1 3.6 9.5
WSW	.0	.1	.1	2.0	.0	.7	.0	.6	.0	.1	.0	.0	.0	.0	.1 3.5 10.5
W	.0	.2	.1	3.9	.0	.9	.0	.2	.0	.3	.0	.1	.0	.1	.2 5.9 10.7
WNW	.0	.0	.1	2.6	.0	.3	.0	.1	.0	.2	.0	.3	.0	.0	.1 3.6 11.0
NW	.0	.5	.1	3.9	.0	.7	.0	.5	.0	.1	.0	.1	.0	.0	.1 5.4 9.4
NNW	.0	.1	.1	2.4	.0	.9	.0	.6	.0	.1	.0	.0	.0	.1	.1 4.2 11.5
CALM	.2	6.1													.2 6.1
TOTAL	.3	9.9	1.5	57.3	.4	15.0	.3	10.0	.2	5.9	.0	1.5	.0	.5	2.7 10.0 10.3

CEILING-VISIBILITY

WIND GRAPH

LAN LANSING, MI

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: LAN LANSING, MI

CLASS 5 / DAY

NO. OBS.: 214

STATION NUMBER: 14836

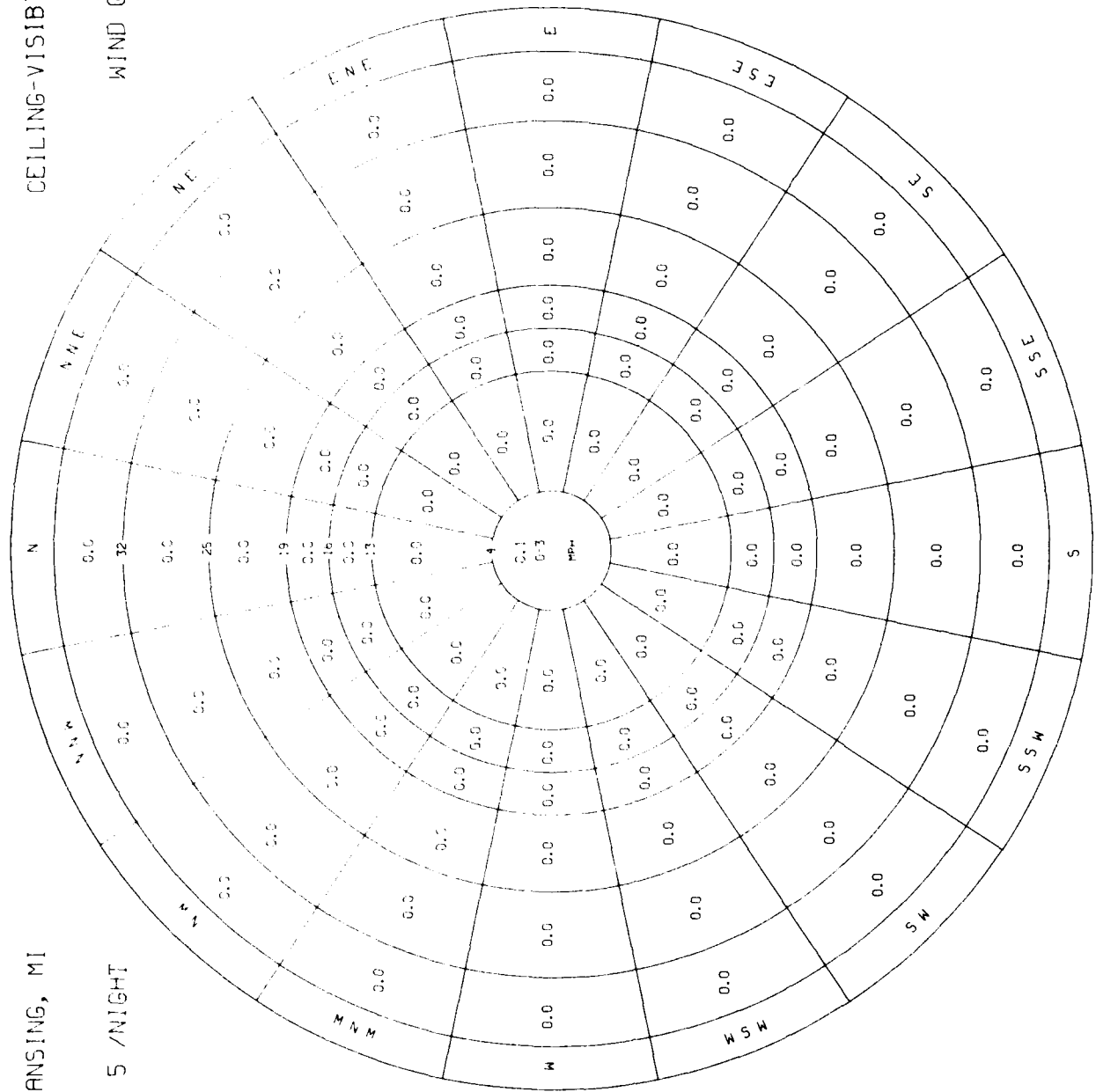
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.4	.0	5.6	.0	.9	.0	.5	.0	.9	.0	.0	.0	.5	.1	9.8	11.3
NNE	.0	.0	.0	4.2	.0	2.8	.0	.5	.0	2.3	.0	.0	.0	.0	.1	9.8	13.5
NE	.0	2.3	.0	7.0	.0	2.8	.0	.5	.0	.0	.0	.0	.0	.0	.1	12.6	8.5
ENE	.0	.5	.0	4.7	.0	1.4	.0	.0	.0	.9	.0	.0	.0	.0	.0	7.5	9.8
E	.0	1.4	.0	5.6	.0	.5	.0	.5	.0	.5	.0	.5	.0	.0	.0	8.9	9.2
ESE	.0	.0	.0	1.4	.0	.0	.0	.9	.0	.5	.0	.0	.0	.0	.0	2.8	12.8
SE	.0	.0	.0	3.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	9.1
SSE	.0	.5	.0	2.3	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	3.7	9.3
S	.0	.0	.0	2.6	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	10.4
SSW	.0	.0	.0	2.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	9.5
SW	.0	.5	.0	.9	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.9	9.0
WSW	.0	.9	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.4
W	.0	.5	.0	3.7	.0	.5	.0	.0	.0	.5	.0	.5	.0	.0	.0	5.6	10.1
WNW	.0	.9	.0	2.8	.0	.0	.0	.0	.0	.5	.0	.9	.0	.5	.0	5.6	12.2
NW	.0	.5	.0	2.8	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	.0	4.2	10.3
NNW	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	4.2	9.7
CALM	.0	8.9													.0	8.9	
TOTAL	.1	16.2	.2	55.6	.1	11.7	.0	4.7	.0	6.5	.0	1.9	.0	1.4	.5	10.0	99.3

LAN LANSING, MI

CLASS 5 / NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: LAR, LAUSING, MT

CLASS 5 / NIGHT

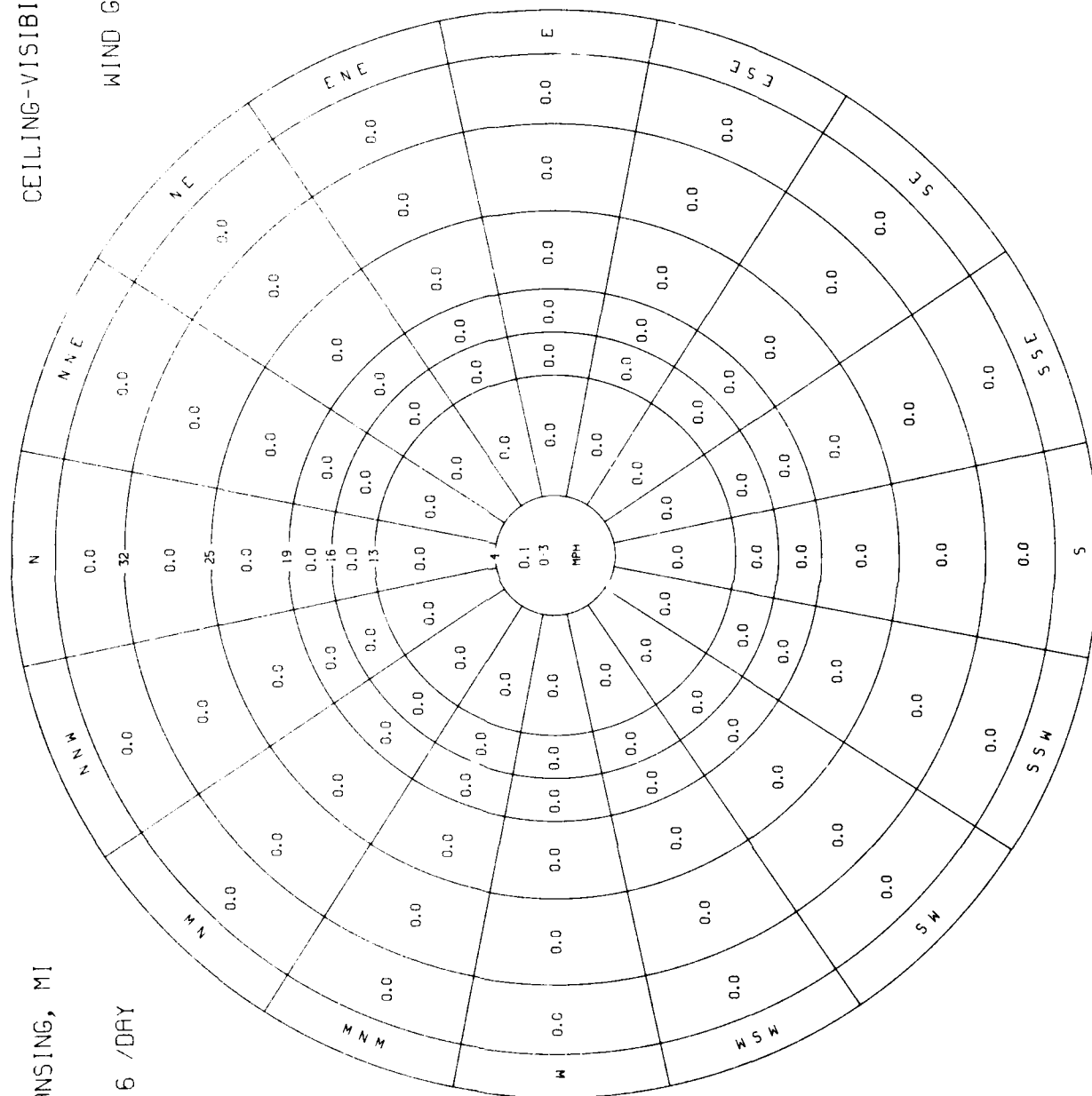
NO. OBS.: 231

STATION NUMBER: 14836

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	2.6	.0	.4	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	4.8	11.8
NNE	.0	.4	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	5.6	8.9
NE	.0	.3	.0	6.5	.0	2.2	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	10.8	10.5
ENE	.0	.4	.0	4.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	8.4
E	.0	.7	.0	6.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	7.9
ESE	.0	.9	.0	5.2	.0	.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	7.8	8.9
SE	.0	.0	.0	2.6	.0	.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	4.3	11.4
SSE	.0	.9	.0	3.5	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	5.2	9.2
S	.0	.0	.0	3.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	9.2
SSW	.0	.0	.0	3.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.9	10.3
SW	.0	.4	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.0
WSW	.0	.4	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	10.7
W	.0	.9	.0	6.1	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	8.7	8.6
WNW	.0	.4	.0	2.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.0	8.0
NW	.0	2.2	.0	2.6	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	5.2	6.0
NNW	.0	.4	.0	2.2	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	3.9	11.2
CALM	.1	10.8														.1	10.8	
TOTAL	.1	20.8	.4	60.6	.1	9.5	.0	5.2	.0	3.9	.0	.0	.0	.0	.0	.7	100	8.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: LAN LANSING, MI

CLASS 6 / DAY

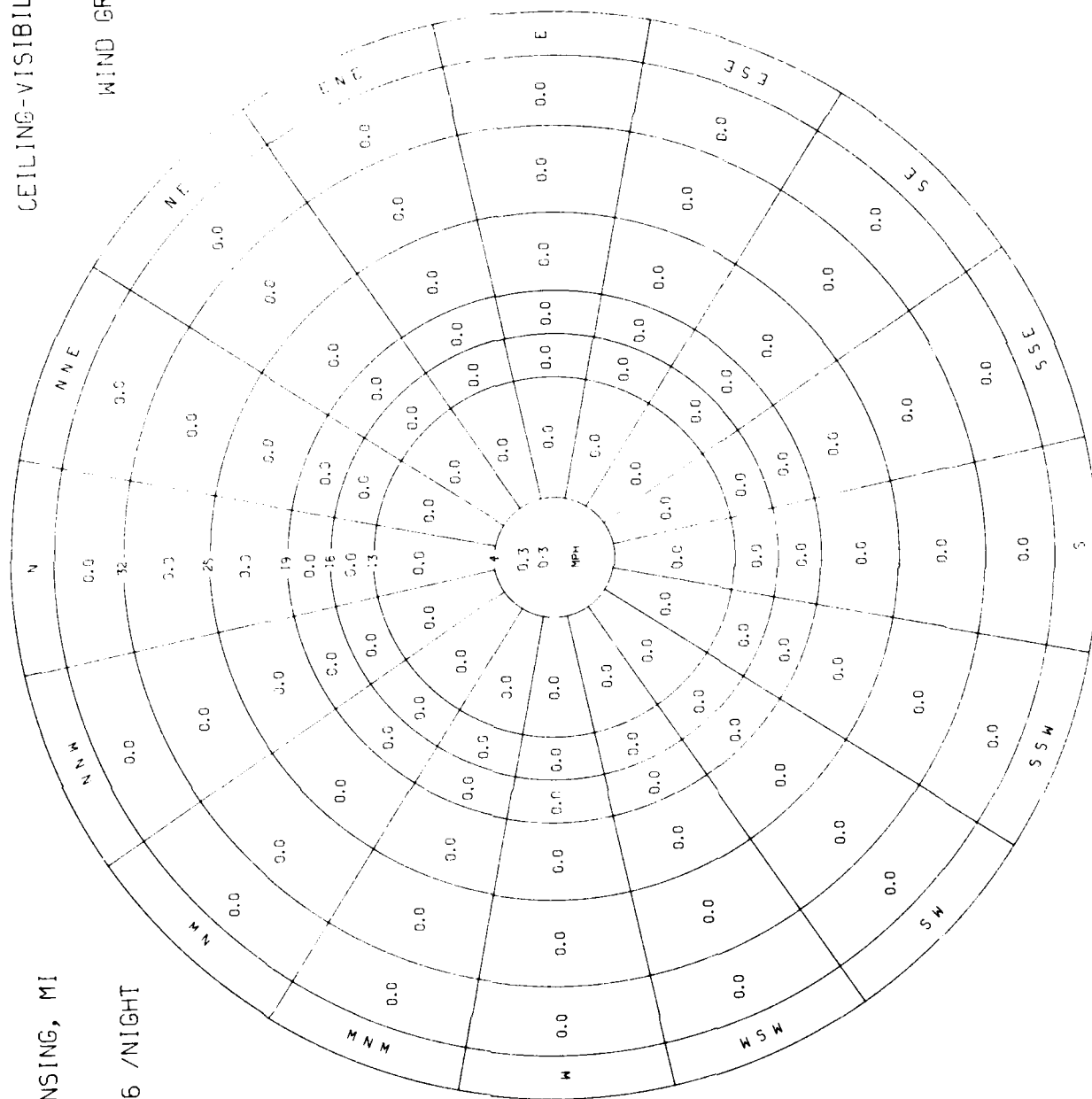
NO. OBS.: 159

STATION NUMBER: 14836

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	1.9	.0	2.5	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.0	7.2
NNE	.0	.0	.0	3.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	10.1
NE	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.5
ENE	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.0
E	.0	1.9	.0	5.7	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	8.2	6.2
ESE	.0	.0	.0	1.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	9.2
SE	.0	.6	.0	2.5	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	5.0	10.0
SSE	.0	1.3	.0	1.9	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	4.4	9.7
S	.0	.0	.0	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	7.6
SSW	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.5
SW	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	6.2
WSW	.0	1.3	.0	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	7.0
W	.0	2.5	.0	5.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	6.6
WNW	.0	.0	.0	2.5	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	3.8	10.3
NW	.0	.0	.0	1.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.9	9.3
NNW	.0	.0	.0	2.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.2
CALM	.1	18.9													.1	18.9	
TOTAL	.1	30.8	.2	59.7	.0	4.4	.0	3.8	.0	1.3	.0	.0	.0	.0	.4	10.0	6.1

WIND GRAPH

CLASS 6 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: LAN LANSING, MI

CLASS 6 / NIGHT

NO. OBS.: 232

STATION NUMBER: 14836

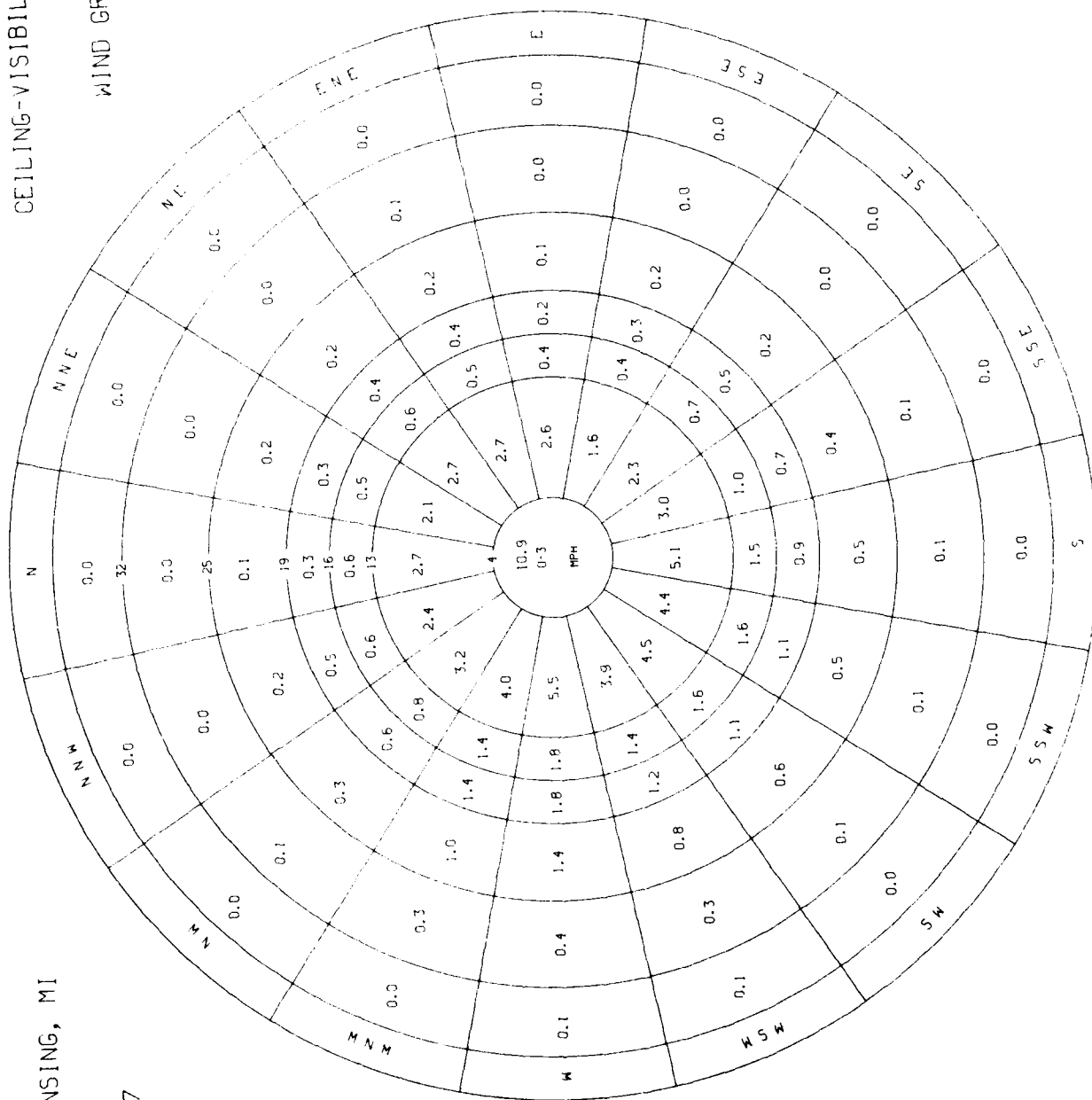
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	3.0	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	4.3	9.0
NNE	.0	.4	.0	1.7	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	2.6	8.5
NE	.0	2.2	.0	6.5	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	9.1	6.4
ENE	.0	1.3	.0	5.6	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.1	7.8	7.4
E	.0	.9	.0	6.5	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.1	8.2	7.6
ESE	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	9.3
SE	.0	.4	.0	3.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	3.9	8.2
SSE	.0	.4	.0	1.7	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	3.9	12.1
S	.0	2.2	.0	3.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.6
SSW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	8.3
SW	.0	.4	.0	1.7	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.0	9.0
WSW	.0	.4	.0	4.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	8.4
W	.0	1.3	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.5
WNW	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	6.3
NW	.0	.4	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.1
NNW	.0	.4	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.8
CALM	.2	27.6														.2	27.6	
TOTAL	.3	38.4	.4	52.6	.0	3.9	.0	3.4	.0	1.3	.0	.4	.0	.0	.0	.7	100	5.5

CEILING-VISIBILITY

WIND GRAPH

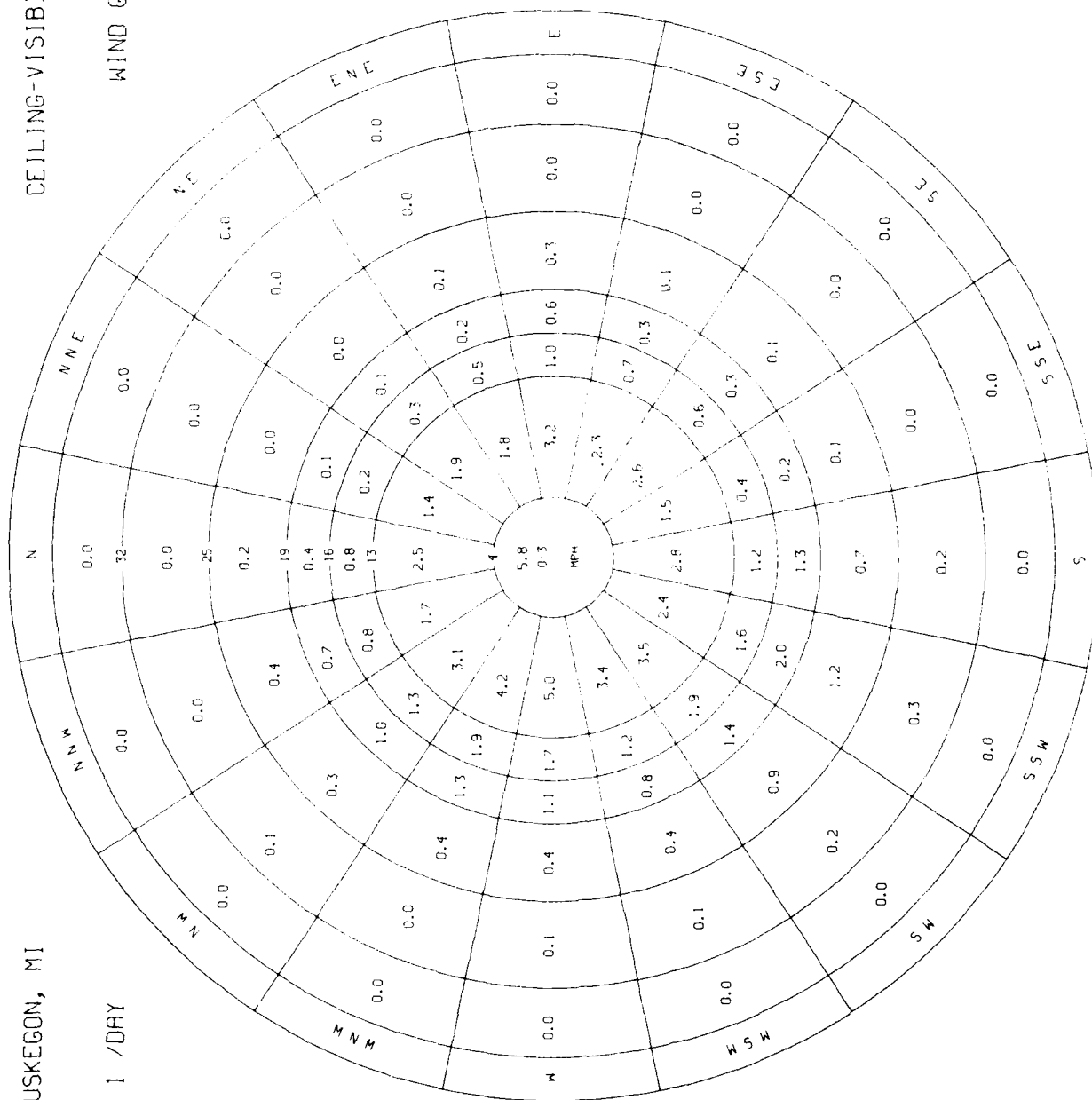
LAN LANSING, MI

CLASS 7



CEILING-VISIBILITY
WIND GRAPH

MKG MUSKEGON, MI
CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MARG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14840

NO. OBS.: 31322

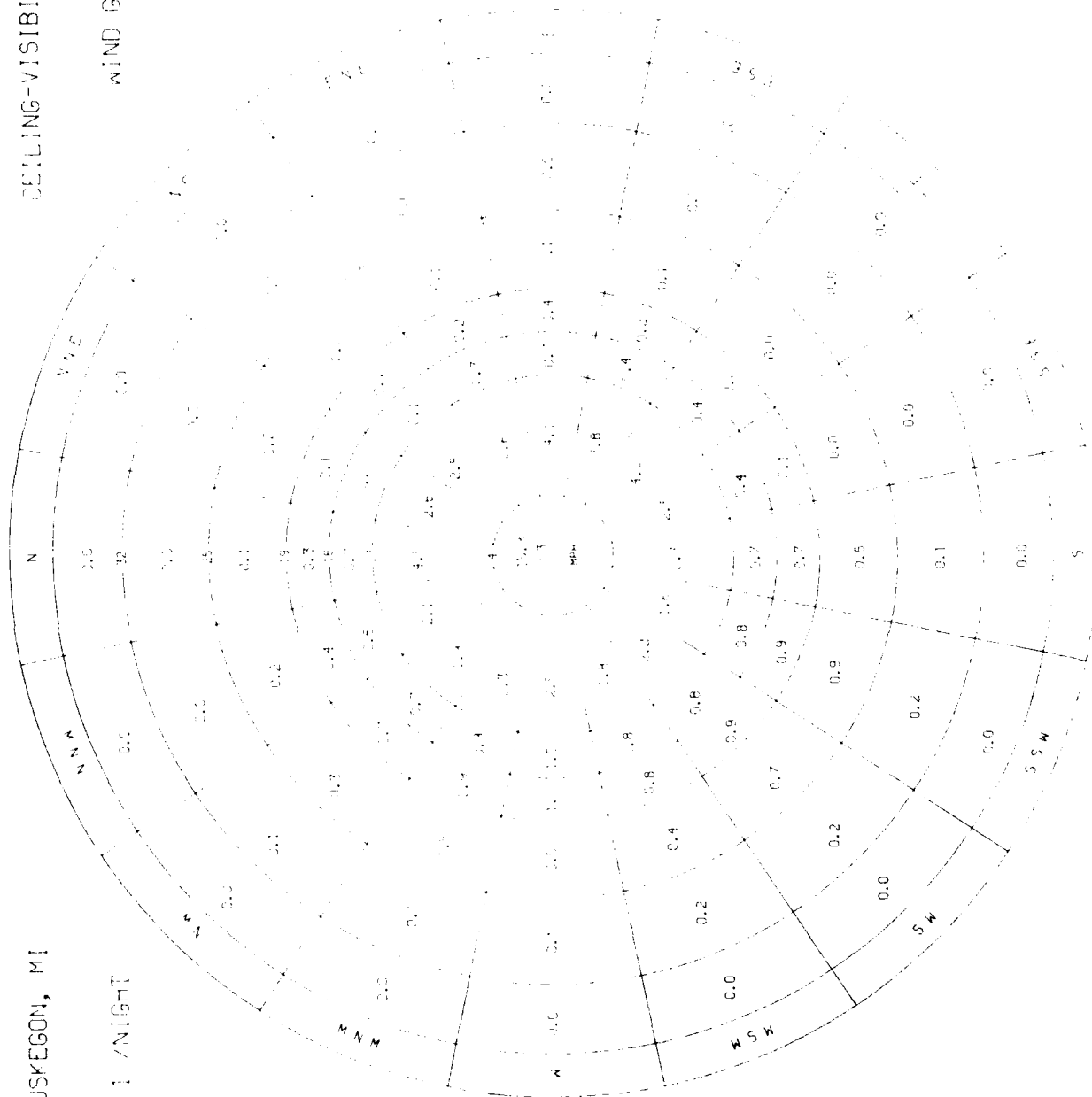
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	.3	2.5	3.0	.3	.3	.4	.5	.2	.2	.0	.0	.0	.0	4.1 4.9
NNE	.1	.1	1.4	1.7	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.9 2.3
NNE	.3	.4	1.9	2.2	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.6 3.1
ENE	.2	.2	1.8	2.2	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.8 3.4
E	.5	.6	3.2	3.8	1.0	1.2	.6	.7	.3	.3	.0	.0	.0	.0	5.6 6.7
ESE	.3	.3	2.3	2.7	.7	.8	.3	.4	.1	.2	.0	.0	.0	.0	3.7 4.4
SE	.4	.5	2.6	3.1	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	4.0 4.8
SSE	.2	.2	1.5	1.8	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.4 2.9
S	.3	.3	2.8	3.4	1.2	1.4	1.3	1.5	.7	.9	.2	.2	.0	.0	6.5 7.7
SSW	.1	.2	2.4	2.9	1.6	1.9	2.0	2.3	1.2	1.4	.3	.3	.0	.0	7.6 9.0
SW	.2	.2	3.5	4.2	1.9	2.2	1.4	1.7	.9	1.1	.2	.2	.0	.0	8.1 9.7
WSW	.2	.2	3.4	4.0	1.2	1.5	.8	1.0	.4	.5	.1	.1	.0	.0	6.2 7.3
W	.3	.4	5.0	6.0	1.7	2.0	1.1	1.3	.4	.5	.1	.1	.0	.0	8.7 10.3
WNW	.2	.2	4.2	4.9	1.9	2.3	1.3	1.5	.4	.5	.0	.0	.0	.0	8.0 9.5
NW	.3	.3	3.1	3.7	1.3	1.5	1.0	1.1	.3	.4	.1	.1	.0	.0	6.0 7.1
NNW	.2	.2	1.7	2.1	.8	1.0	.7	.8	.4	.5	.0	.0	.0	.0	3.9 4.6
CALM	1.9	2.2													1.9 2.3
TOTAL	5.8	6.9	43.4	51.7	16.1	19.2	11.8	14.0	5.5	6.7	1.1	1.3	.1	.1	83.9 100
															11.5

CEILING-VISIBILITY

WIND GRAPH

MKG MUSKEGON, MI

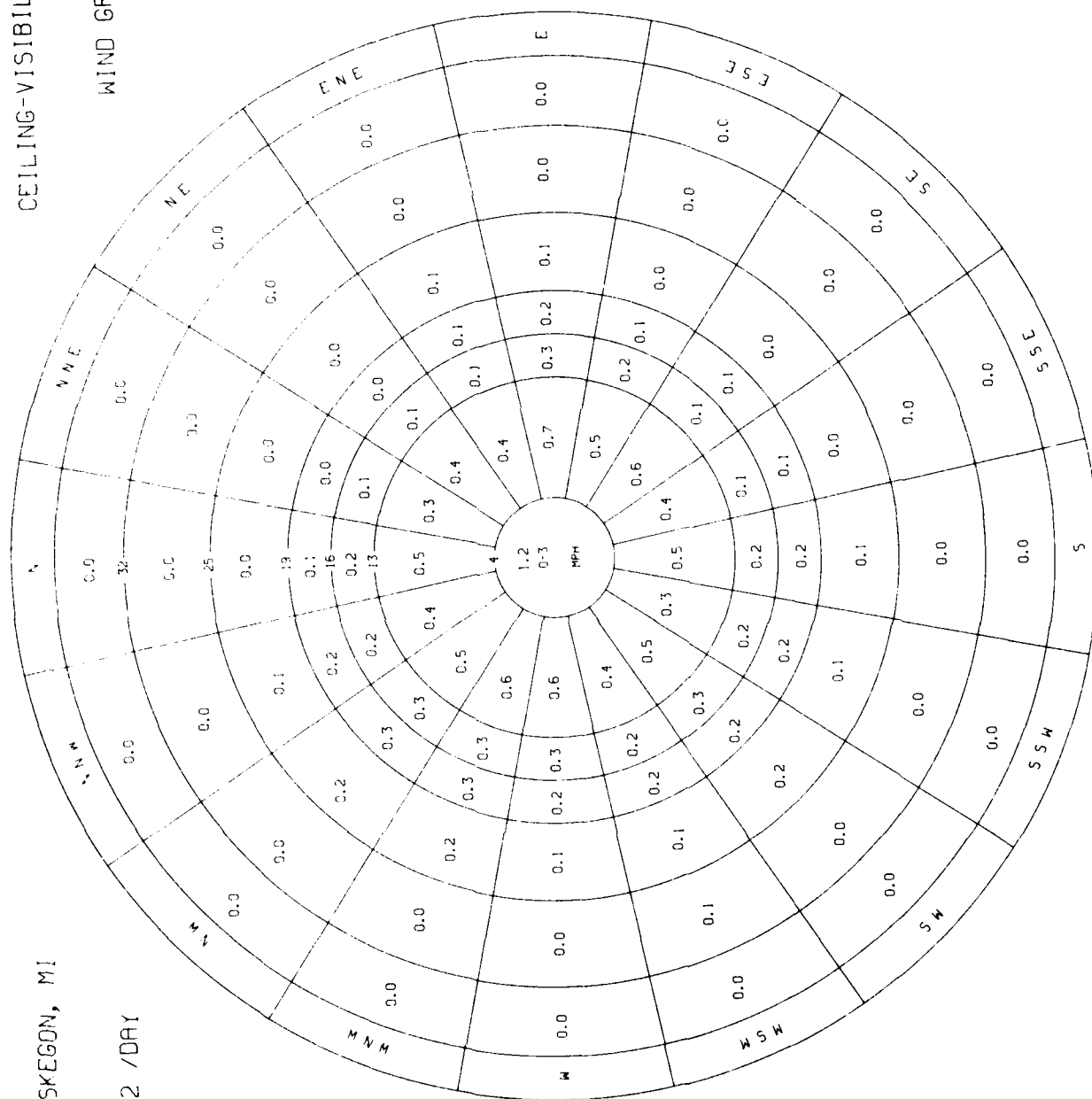
CLASS 1 / NIGHT



CEILING-VISIBILITY WIND GRAPH

MKG MUSKEGON, MI

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFG MUSKOGON, MI

PERIOD: 1948-1978

CLASS 2 / DAY

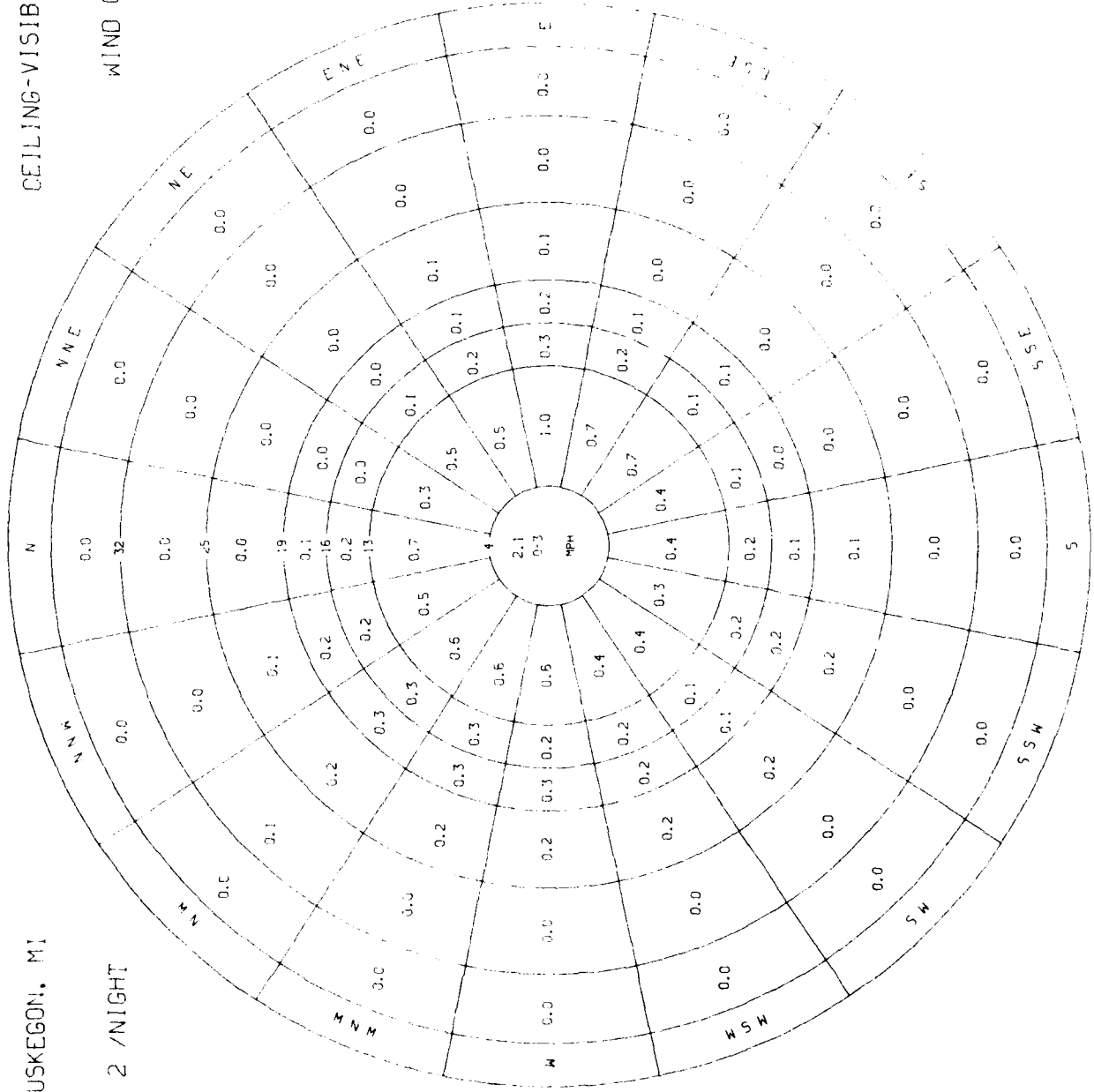
STATION NUMBER: 14840

NO. OBS.: 5989

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.5	2.9	.2	1.1	.1	.7	.0	.2	.0	.1	.0	.0	.9 5.3 11.3
NNE	.0	.2	.3	1.7	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.4 2.4 9.3
NE	.1	.4	.4	2.3	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.6 3.7 10.0
ENE	.0	.2	.4	2.7	.1	.9	.1	.7	.1	.3	.0	.1	.0	.0	.8 4.8 11.8
E	.1	.4	.7	4.4	.3	1.8	.2	1.2	.1	.9	.0	.2	.0	.0	1.4 8.9 12.2
ESE	.1	.3	.5	3.3	.2	1.1	.1	.9	.0	.3	.0	.1	.0	.0	1.0 6.0 11.0
SE	.1	.5	.6	3.8	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.9 5.4 9.1
SSE	.0	.3	.4	2.3	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.6 3.7 10.2
S	.1	.5	.5	3.3	.2	1.2	.2	1.3	.1	.6	.0	.1	.0	.0	1.1 7.0 12.0
SSW	.0	.1	.3	2.1	.2	1.2	.2	1.2	.1	.7	.0	.1	.0	.1	.9 5.5 13.7
SW	.0	.3	.5	2.9	.3	1.7	.2	1.1	.2	.9	.0	.2	.0	.1	1.2 7.2 13.7
WSW	.0	.1	.4	2.5	.2	1.2	.2	1.2	.1	.7	.1	.3	.0	.1	1.0 6.0 14.1
W	.0	.3	.6	3.9	.3	1.6	.2	1.5	.1	.8	.0	.2	.0	.0	1.3 8.2 12.6
WNW	.0	.3	.6	3.5	.3	1.9	.3	1.9	.2	1.3	.0	.1	.0	.0	1.4 8.9 13.5
NW	.0	.3	.5	3.0	.3	1.8	.3	1.7	.2	1.2	.0	.1	.0	.1	1.3 8.1 13.6
NNW	.0	.2	.4	2.3	.2	1.1	.2	1.3	.1	.6	.0	.3	.0	.1	.9 5.9 13.9
CALM	.5	3.0													.5 3.0
TOTAL	1.2	7.6	7.5	46.8	3.0	18.8	2.5	15.7	1.4	8.9	.3	1.9	.1	.4	16.1 100 12.0

MKG MUSKEGON, MI

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: M+G MUSKOGON, MI

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14846

NO. OBS.: 5898

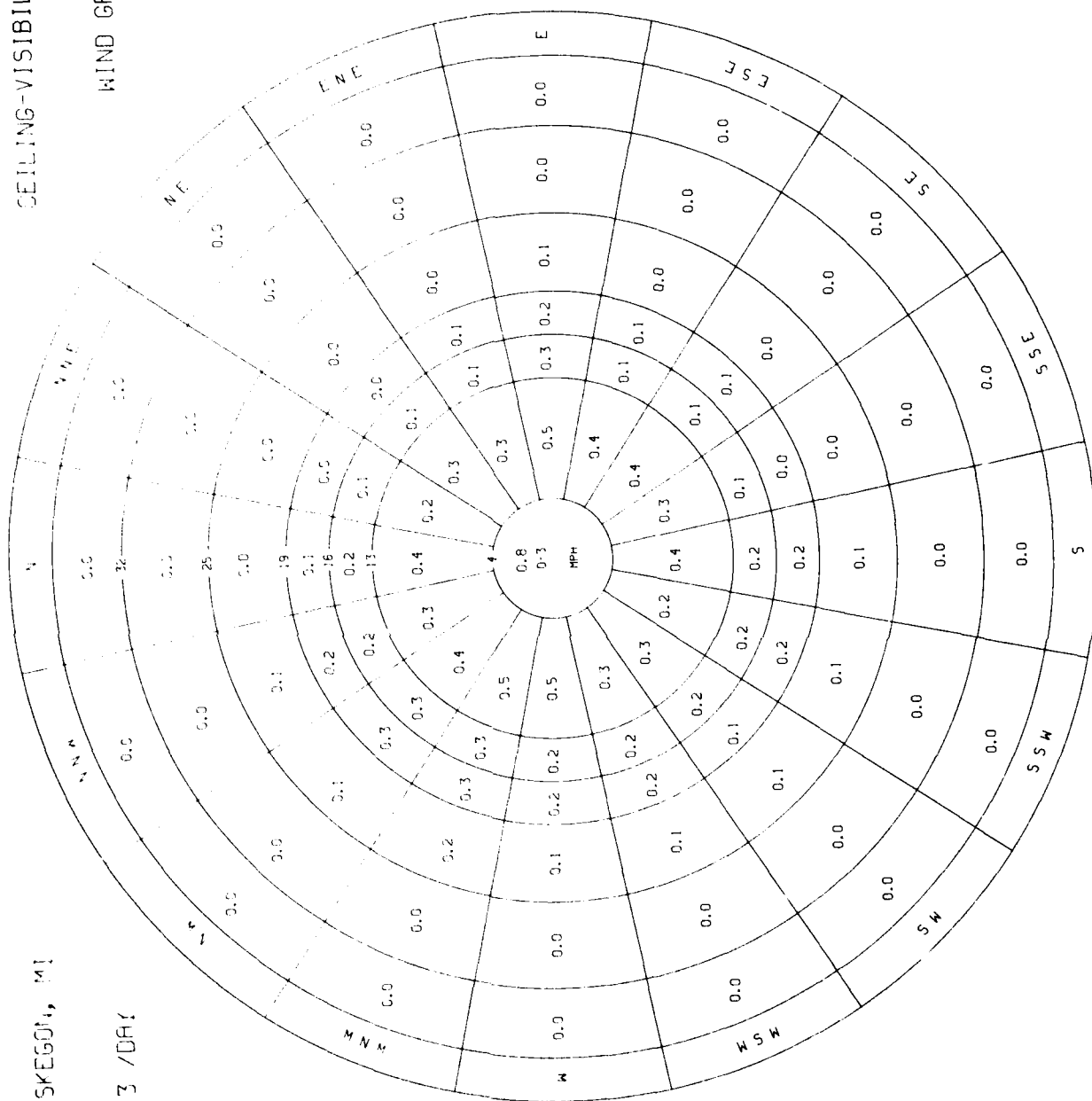
D I R	SPEED GROUPS (MPH)																	AVG WIND SPEED
	0-3		4-12		13-15		15-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.1	.5	.7	3.8	.2	1.1	.1	.6	.0	.2	.0	.1	.0	.0	1.1	6.3	10.4	
NNE	.0	.2	.3	1.9	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.5	2.7	9.2	
NNE	.1	.3	.5	2.7	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.9	4.5	8.7	
ENE	.4	.4	.5	2.8	.2	1.0	.1	.6	.1	.3	.0	.0	.0	.0	.9	5.1	10.8	
E	.3	.3	1.0	5.7	.3	1.8	.2	.3	.1	.5	.0	.1	.0	.0	1.9	10.3	10.7	
ESE	.1	.3	.7	4.1	.2	.9	.1	.6	.0	.2	.0	.0	.0	.0	1.1	6.4	9.9	
SE	.1	.6	.7	3.9	.1	.8	.1	.4	.0	.0	.0	.0	.0	.0	1.0	5.7	8.9	
SSE	.0	.3	.4	2.3	.1	.5	.0	.3	.0	.0	.0	.0	.0	.0	.6	3.4	9.7	
S	.1	.4	.4	2.4	.2	.9	.1	.8	.1	.4	.0	.1	.0	.0	.9	5.1	11.5	
SSW	.0	.2	.3	1.7	.2	.9	.2	.9	.2	1.1	.0	.1	.0	.1	.9	4.9	14.5	
SW	.1	.4	.4	2.1	.1	.8	.1	.7	.2	.9	.0	.2	.0	.0	.9	5.2	13.3	
WSW	.0	.2	.4	2.1	.2	.9	.2	.9	.2	.9	.0	.2	.0	.1	.9	5.2	14.1	
W	.1	.4	.6	3.1	.2	1.3	.3	1.7	.2	1.2	.0	.3	.0	.0	1.4	7.9	13.8	
WNW	.0	.2	.6	3.6	.3	1.5	.3	1.8	.2	1.3	.0	.3	.0	.1	1.6	8.7	13.9	
NW	.1	.5	.6	3.1	.3	1.4	.3	1.5	.2	1.0	.1	.4	.0	.1	1.4	8.0	13.4	
NNW	.1	.3	.5	2.9	.2	1.2	.2	1.0	.1	.6	.0	.2	.0	.0	1.1	6.2	12.6	
CALM	.2	.4	.6	4.8	.2	.8	2.4	13.6	.1	6.8	.4	2.0	.1	.4	.8	4.5		
TOTAL	.2	1.4	2.6	48.0	2.8	15.9	2.4	13.6	1.6	6.8	.4	2.0	.1	.4	18.0	100	11.3	

CEILING-VISIBILITY

WIND GRAPH

MKG MUSKEGON, MI

CLASS 3 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKOGON, MI

PERIOD: 1948-1978

CLASS 3 / DAY

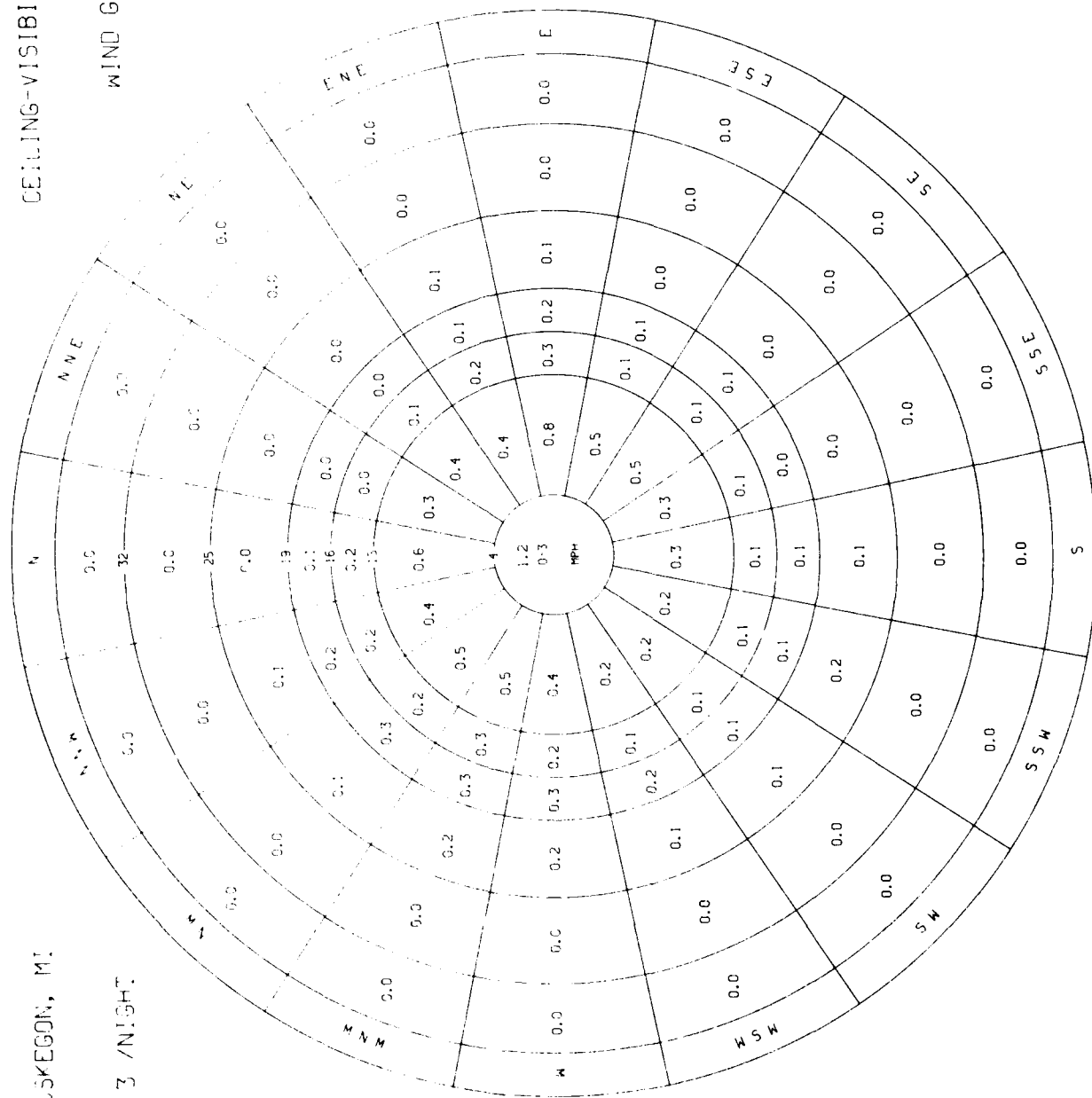
NO. OBS.: 4959

STATION NUMBER: 14840

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.4	3.1	.2	1.3	.1	.6	.0	.2	.0	.1	.0	.0	.8	5.7	11.3
NNE	.0	.2	.2	1.8	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.5	9.5
NE	.0	.3	.3	2.4	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.8	10.3
ENE	.0	.1	.3	2.5	.1	1.0	.1	.8	.0	.4	.0	.1	.0	.0	.7	4.9	12.3
E	.0	.3	.5	4.1	.3	2.0	.2	1.4	.1	.9	.0	.2	.0	.0	1.2	9.0	12.7
ESE	.0	.2	.4	3.1	.1	1.1	.1	.9	.0	.3	.0	.0	.0	.0	.8	5.7	11.2
SE	.1	.4	.4	3.2	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.8	9.7
SSE	.0	.2	.3	2.1	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.3	10.4
S	.1	.5	.4	3.1	.2	1.3	.2	1.4	.1	.7	.0	.1	.0	.0	.9	7.1	12.4
SSW	.0	.2	.2	1.8	.2	1.2	.2	1.4	.1	.6	.0	.1	.0	.0	.7	5.3	14.1
SW	.0	.2	.3	2.5	.2	1.6	.1	1.0	.1	1.0	.0	.2	.0	.1	.9	6.7	14.3
WSW	.0	.1	.3	2.5	.2	1.3	.2	1.3	.1	.7	.0	.3	.0	.1	.8	6.2	14.3
W	.0	.2	.5	3.9	.2	1.7	.2	1.6	.1	.7	.0	.2	.0	.0	1.1	8.3	12.7
WNW	.0	.2	.5	3.4	.3	2.3	.3	2.1	.2	1.2	.0	.1	.0	.0	1.2	9.3	13.6
NW	.0	.3	.4	3.2	.3	2.0	.3	1.9	.1	1.1	.0	.1	.0	.0	1.1	8.6	13.4
NNW	.0	.1	.3	2.5	.2	1.3	.2	1.5	.1	.7	.0	.2	.0	.0	.8	6.4	13.8
CALM	.3	2.4													.3	2.4	
TOTAL	.8	6.3	6.0	45.4	2.7	20.4	2.3	17.0	1.2	8.8	.2	1.9	.0	.0	13.3	100	12.3

MRG MUSEGGN, MI

CLASS 3 / NIGHT.



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKOGON, MI

PERIOD: 1948-1978

CLASS 3 / NIGHT

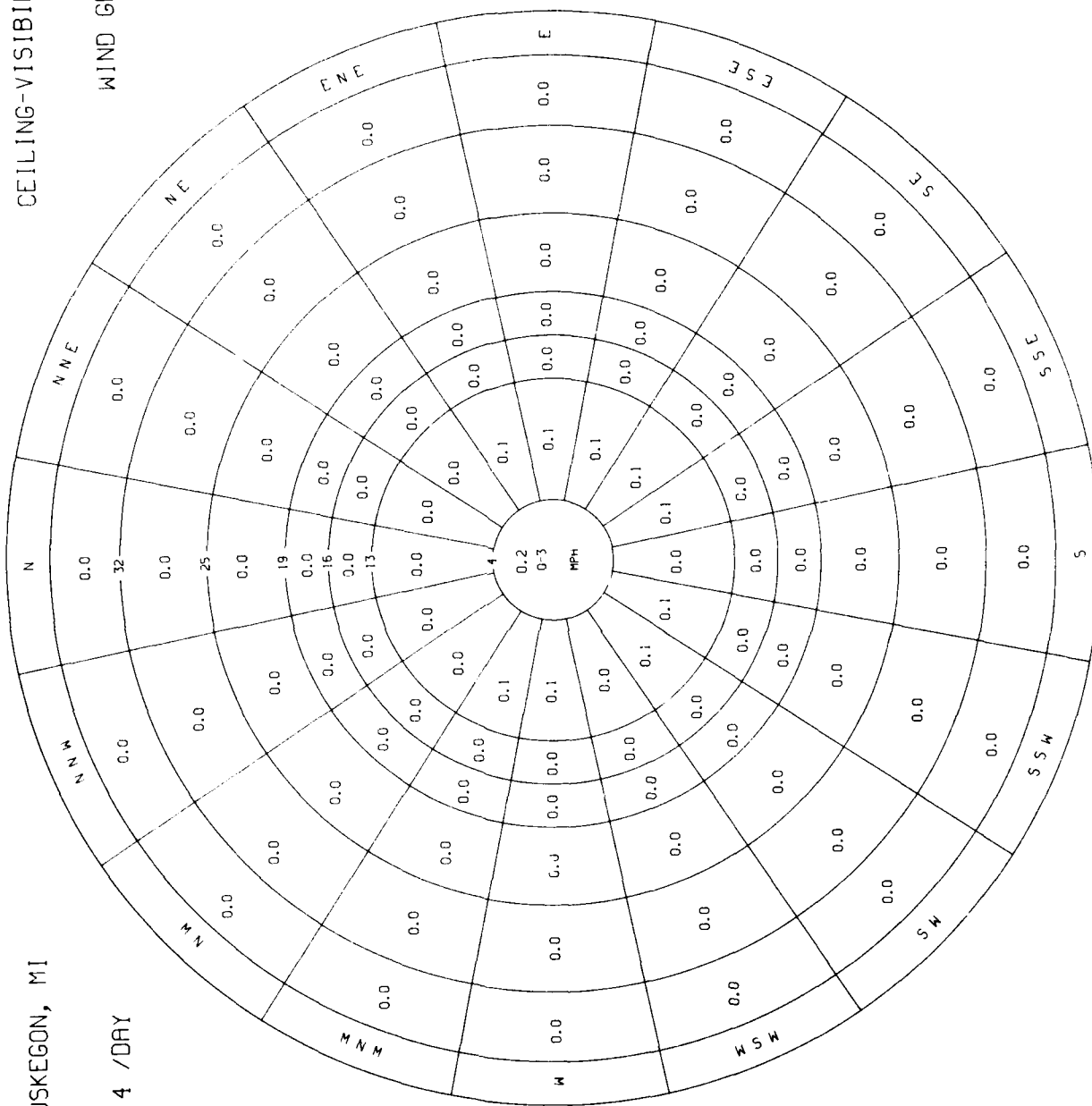
STATION NUMBER: 14840

NO. OBS.: 4668

D I R	SPEED GROUPS (MPH)																	AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.1	.5	.6	4.1	.2	1.2	.1	.7	.0	.2	.0	.1	.0	.0	1.0	6.9	10.6	
NNE	.0	.2	.3	1.9	.0	.3	.0	.3	.0	.1	.0	.0	.0	.0	.4	2.8	9.7	
NE	.1	.6	.4	3.0	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.7	4.6	9.2	
ENE	.0	.3	.4	2.8	.2	1.1	.1	.7	.1	.4	.0	.0	.0	.0	.8	5.3	11.5	
E	.1	.7	.8	5.6	.3	2.1	.2	1.5	.1	.6	.0	.1	.0	.0	1.5	10.7	11.3	
ESE	.1	.5	.5	3.6	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.9	6.0	10.3	
SE	.1	.4	.5	3.5	.1	.9	.1	.4	.0	.0	.0	.0	.0	.0	.7	5.2	9.5	
SSE	.0	.2	.3	2.3	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.3	9.8	
S	.1	.4	.3	2.4	.1	.8	.1	.9	.1	.4	.0	.1	.0	.0	.7	4.9	11.8	
SSW	.0	.1	.2	1.4	.1	.8	.1	1.0	.2	1.1	.0	.1	.0	.0	.6	4.4	15.1	
SW	.0	.2	.2	1.6	.1	.8	.1	.8	.1	.9	.0	.3	.0	.0	.7	4.7	14.6	
WSW	.0	.2	.2	1.7	.1	.9	.2	1.1	.1	.9	.0	.2	.0	.1	.7	5.1	15.1	
W	.0	.3	.4	3.1	.2	1.3	.3	2.0	.2	1.3	.0	.3	.0	.0	1.2	8.2	14.1	
WNW	.0	.2	.5	3.6	.3	1.9	.3	2.1	.2	1.3	.0	.2	.0	.0	1.3	9.2	14.0	
NW	.1	.5	.5	3.4	.2	1.7	.3	1.9	.1	1.0	.0	.3	.0	.0	1.2	8.8	13.3	
NNW	.0	.3	.4	3.1	.2	1.3	.2	1.2	.1	.7	.0	.2	.0	.0	1.0	6.8	12.7	
CALM	.4	3.0													.4	3.0		
TOTAL	1.2	8.5	6.7	47.0	2.5	17.4	2.2	15.5	1.3	9.3	.3	1.9	.0	.3	14.2	100	11.9	

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 4 / DAY

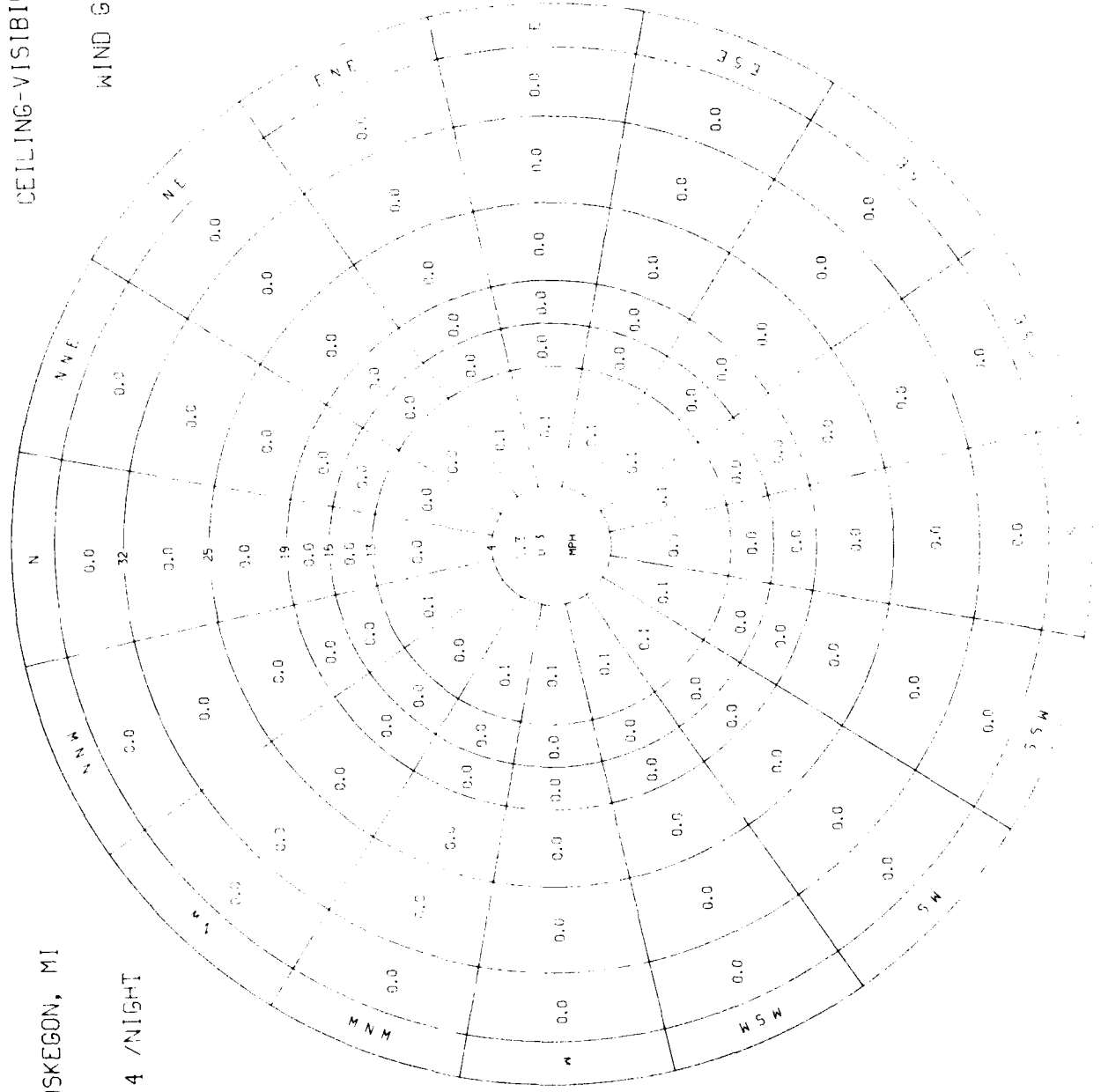
STATION NUMBER: 14840

NO. OBS.: 684

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.0	.1	.0	2.0	.0	.0	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	3.8	12.0		
NNE	.0	.4	.0	1.2	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	9.0		
NE	.0	.4	.0	1.8	.0	.3	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	3.1	9.9		
ENE	.0	.0	.1	3.9	.0	.3	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	5.0	10.2		
E	.0	1.0	.1	6.1	.0	.9	.0	.7	.0	.7	.0	.3	.0	.0	.0	.0	.0	.2	9.8	10.0		
ESE	.0	.3	.1	4.7	.0	1.8	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	7.7	10.7		
SE	.0	.6	.1	7.0	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	8.3	8.1		
SSE	.0	.4	.1	3.2	.0	.9	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	5.6	10.5		
S	.0	.6	.0	2.3	.0	.6	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	4.8	11.1		
SSW	.0	.0	.1	3.5	.0	1.8	.0	.7	.0	1.0	.0	.1	.0	.1	.0	.1	.0	.1	7.3	13.3		
SW	.0	.7	.1	4.1	.0	1.3	.0	1.3	.0	.6	.0	.3	.0	.3	.0	.1	.0	.2	8.5	12.0		
WSW	.0	.1	.0	2.5	.0	.4	.0	.7	.0	.7	.0	.3	.0	.0	.0	.0	.0	.1	4.8	13.2		
W	.0	1.0	.1	3.4	.0	1.2	.0	1.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.2	8.3	12.1		
WNW	.0	.3	.1	3.2	.0	.4	.0	1.0	.0	1.8	.0	.1	.0	.1	.0	.0	.0	.1	6.9	13.6		
NW	.0	.4	.0	2.5	.0	1.2	.0	.4	.0	1.6	.0	.3	.0	.1	.0	.1	.0	.1	6.6	14.7		
NNW	.0	.3	.0	1.8	.0	.3	.0	.7	.0	.4	.0	.6	.0	.0	.0	.0	.0	.1	4.1	14.1		
CALM	.1	3.4																.1	3.4			
TOTAL	.2	10.2	1.0	53.2	.2	12.0	.2	12.1	.2	9.8	.0	2.2	.0	.4	1.8	100				11.2		

CEILING-VISIBILITY

WIND GRAPH



MKG MUSKEGON, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: M. J. MURPHY, JR.

CLASS A / NIGHT

NO. OBS.: 703

STATION NUMBER: 14640

D I P	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	.5	.0	.6	.0	.3	.0	.3	.0	.1	.0	.0	.1	4.0	9.9
NNE	.0	.3	.0	.2	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.0	8.4
NNE	.0	.1	.0	.1	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.1	3.8	7.3
ENE	.0	.7	.1	.3	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.1	5.1	8.9
E	.0	.6	.1	.5	.0	.9	.0	.9	.0	.4	.0	.0	.0	.0	.2	9.5	9.3
ESE	.0	.9	.1	.7	.0	1.3	.0	.6	.0	.4	.0	.0	.0	.0	.2	10.0	9.6
SE	.0	1.1	.1	1.0	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.1	6.7	6.1
SSE	.0	.3	.1	.2	.0	.7	.0	.6	.0	.0	.0	.0	.0	.0	.1	4.1	10.4
S	.0	.4	.0	.3	.0	1.4	.0	.3	.0	.4	.0	.1	.0	.0	.1	5.3	12.2
SSW	.0	.3	.1	.2	.0	1.7	.0	.9	.0	1.1	.0	.1	.0	.0	.1	6.7	13.6
SW	.0	.5	.1	.3	.0	1.0	.0	.6	.0	1.3	.0	.0	.0	.0	.1	6.5	11.7
WSW	.0	.3	.1	.2	.0	.9	.0	.4	.0	.9	.0	.0	.0	.0	.1	5.7	11.9
W	.0	.1	.1	.3	.0	1.2	.0	.3	.0	1.6	.0	.3	.0	.0	.1	6.5	13.3
WNW	.0	.4	.1	.2	.0	.4	.0	.7	.0	1.2	.0	.3	.0	.1	.1	7.0	13.9
NW	.0	.7	.1	.3	.0	.7	.0	.3	.0	1.1	.0	.9	.0	.0	.1	5.7	14.4
NNW	.0	.0	.1	.1	.0	1.1	.0	.6	.0	.6	.0	.1	.0	.0	.1	5.0	13.0
CA	.0	.4	.0	.3	.0	.8	.0	.6	.0	.9	.0	.2	.0	.0	.1	6.4	
TOTAL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	10.0	10.4

F/G 4/2

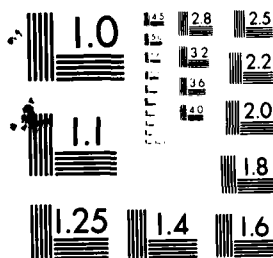
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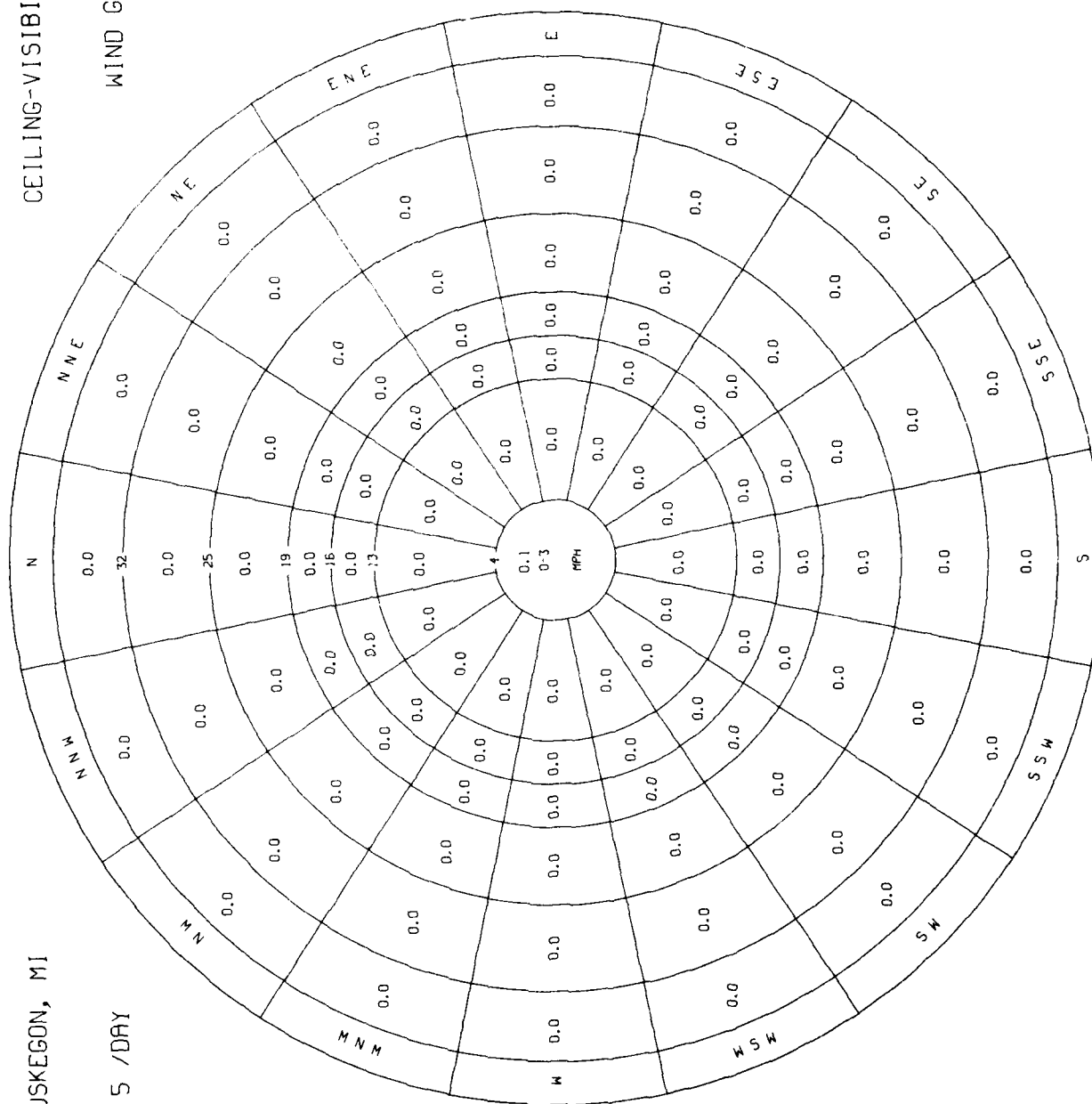
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CEILING-VISIBILITY WIND GRAPH

MKG MUSKEGON, MI
CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKOGON, MI

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14840

NO. OBS.: 169

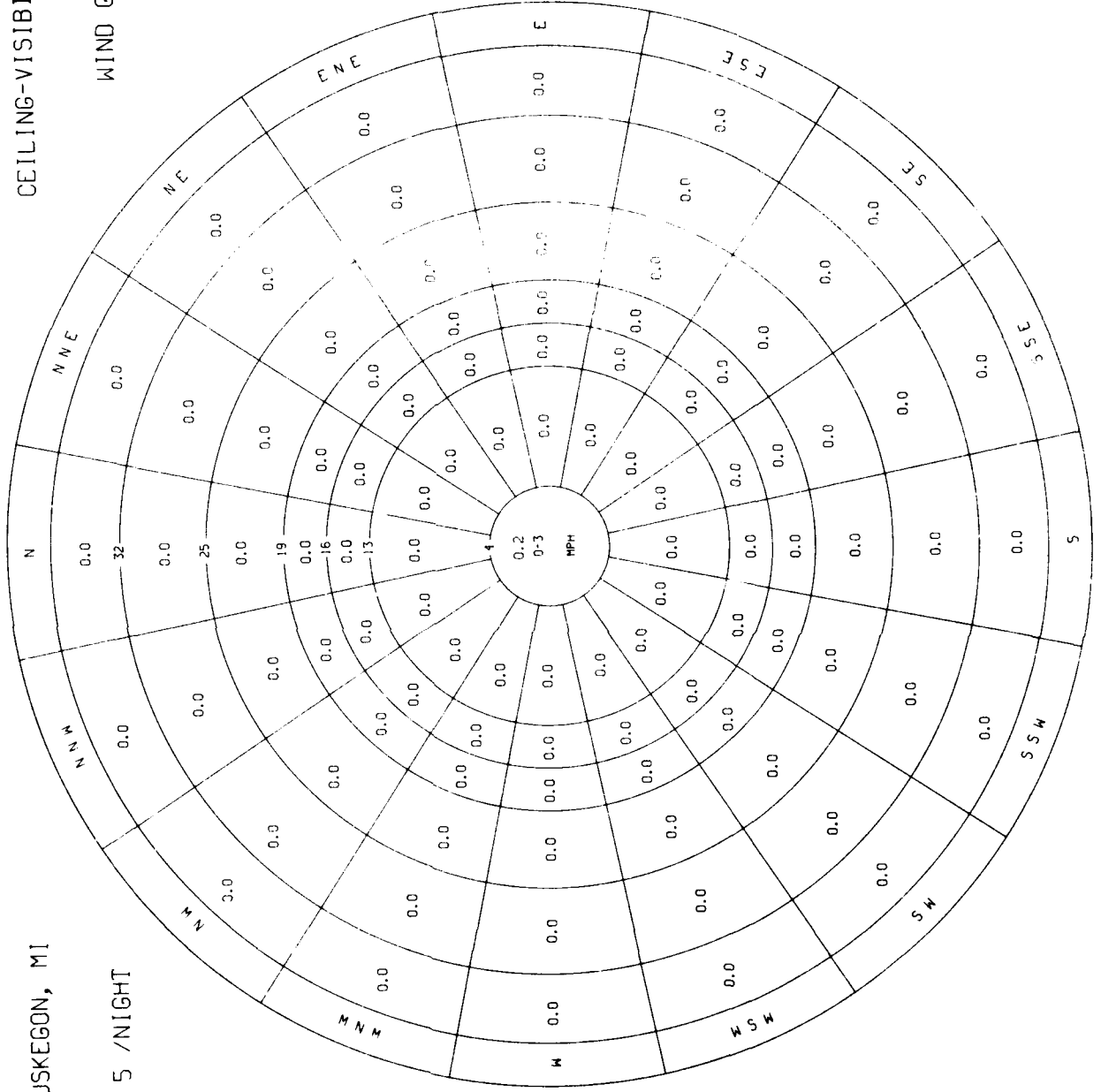
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	.0	.0	2.4	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	3.0
NNE	.0	.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4
NE	.0	1.2	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1
ENE	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1
E	.0	.0	.0	3.0	.0	.6	.0	.0	.0	1.2	.0	.0	.0	.0	.0	4.7
ESE	.0	1.2	.0	3.6	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	6.5
SE	.0	2.4	.0	4.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3
SSE	.0	.0	.0	3.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	3.6
S	.0	.0	.0	6.5	.0	1.2	.0	1.2	.0	.6	.0	.0	.0	.0	.0	9.5
SSW	.0	.0	.0	4.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3
SW	.0	.0	.0	5.9	.0	3.6	.0	2.4	.0	1.8	.0	.0	.0	.0	.1	13.6
WSW	.0	.6	.0	1.8	.0	1.2	.0	1.2	.0	.6	.0	.6	.0	.6	.0	6.5
W	.0	.0	.0	3.6	.0	.6	.0	.0	.0	2.4	.0	.0	.0	.0	.0	6.5
WNW	.0	1.8	.0	4.7	.0	.6	.0	.0	.0	1.8	.0	.6	.0	.0	.0	9.5
NW	.0	.6	.0	.6	.0	.6	.0	.6	.0	1.8	.0	.0	.0	.0	.0	4.1
NNW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.6	.0	1.2	.0	3.0
CALM	.0	5.3													.0	5.3
TOTAL	.1	13.6	.2	53.8	.1	11.2	.0	6.5	.0	10.7	.0	2.4	.0	1.8	.5	10.6

CEILING-VISIBILITY

WIND GRAPH

MKG MUSKEGON, MI

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MFG MUSKEGON, MI

CLASS 5 / NIGHT

NO. OBS.: 248

STATION NUMBER: 14840

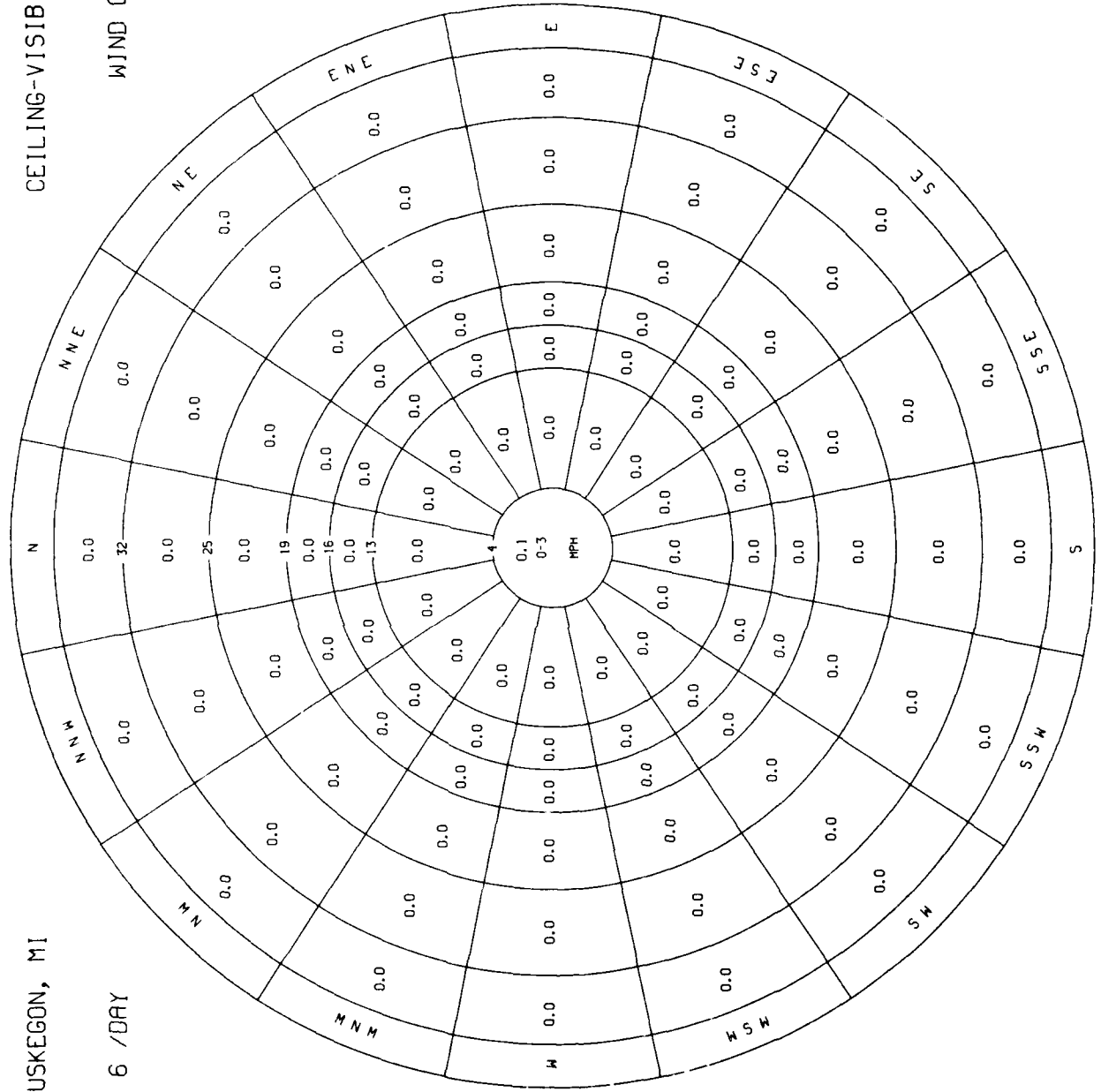
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	4.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 5.6
NNE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.8
NE	.0	1.2	.0	1.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 3.2
ENE	.0	.4	.0	3.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
E	.0	.8	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0
ESE	.0	.4	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.5
SE	.0	2.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1 8.1
SSE	.0	.8	.0	1.2	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0 2.8
S	.0	.0	.0	4.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.4	.0 6.0
SSW	.0	1.2	.0	2.0	.0	1.2	.0	.0	.0	1.6	.0	.0	.0	.0	.0 6.0
SW	.0	.8	.0	3.2	.0	1.2	.0	.8	.0	.4	.0	.0	.0	.4	.1 6.9
WSW	.0	.0	.0	6.0	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.1 7.3
W	.0	1.2	.0	2.0	.0	.4	.0	.8	.0	2.0	.0	.8	.0	.0	.1 7.3
WNW	.0	.4	.0	4.0	.0	.0	.0	2.0	.0	.8	.0	.4	.0	.4	.1 8.1
NW	.0	.4	.0	2.8	.0	.4	.0	.0	.0	.0	.0	1.2	.0	.4	.0 5.2
NNW	.0	.4	.0	1.6	.0	.0	.0	.8	.0	.0	.0	.4	.0	.0	.0 3.2
CALM	.1	10.9													.1 10.9
TOTAL	.2	21.8	.4	56.5	.0	4.8	.1	6.9	.0	5.6	.0	2.8	.0	1.6	.8 100

CEILING-VISIBILITY

WIND GRAPH

MKG MUSKEGON, MI

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14840

NO. OBS.: 177

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0 1.7
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.1
ENE	.0	1.1	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
E	.0	1.1	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.8
ESE	.0	2.3	.0	4.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0 6.8
SE	.0	2.3	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.3
SSE	.0	2.8	.0	4.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0 7.3
S	.0	1.7	.0	8.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1 10.7
SSW	.0	.0	.0	4.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.6
SW	.0	1.7	.0	5.6	.0	3.4	.0	.0	.0	.6	.0	.0	.0	.0	.1 11.9
WSW	.0	.6	.0	2.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.1
W	.0	1.1	.0	4.5	.0	.6	.0	.0	.0	1.1	.0	.0	.0	.0	.0 7.3
WNW	.0	.6	.0	4.5	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0 6.2
NW	.0	.0	.0	1.7	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	.0 4.0
NNW	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0 1.1
CALM	.1	13.6													.1 13.6
TOTPL	.1	29.9	.3	54.2	.0	7.3	.0	1.7	.0	4.5	.0	.6	.0	1.7	.5 100
															7.3

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MKG MUSKOGON, MI

CLASS 6 / NIGHT

NO. OBS.: 279

STATION NUMBER: 14840

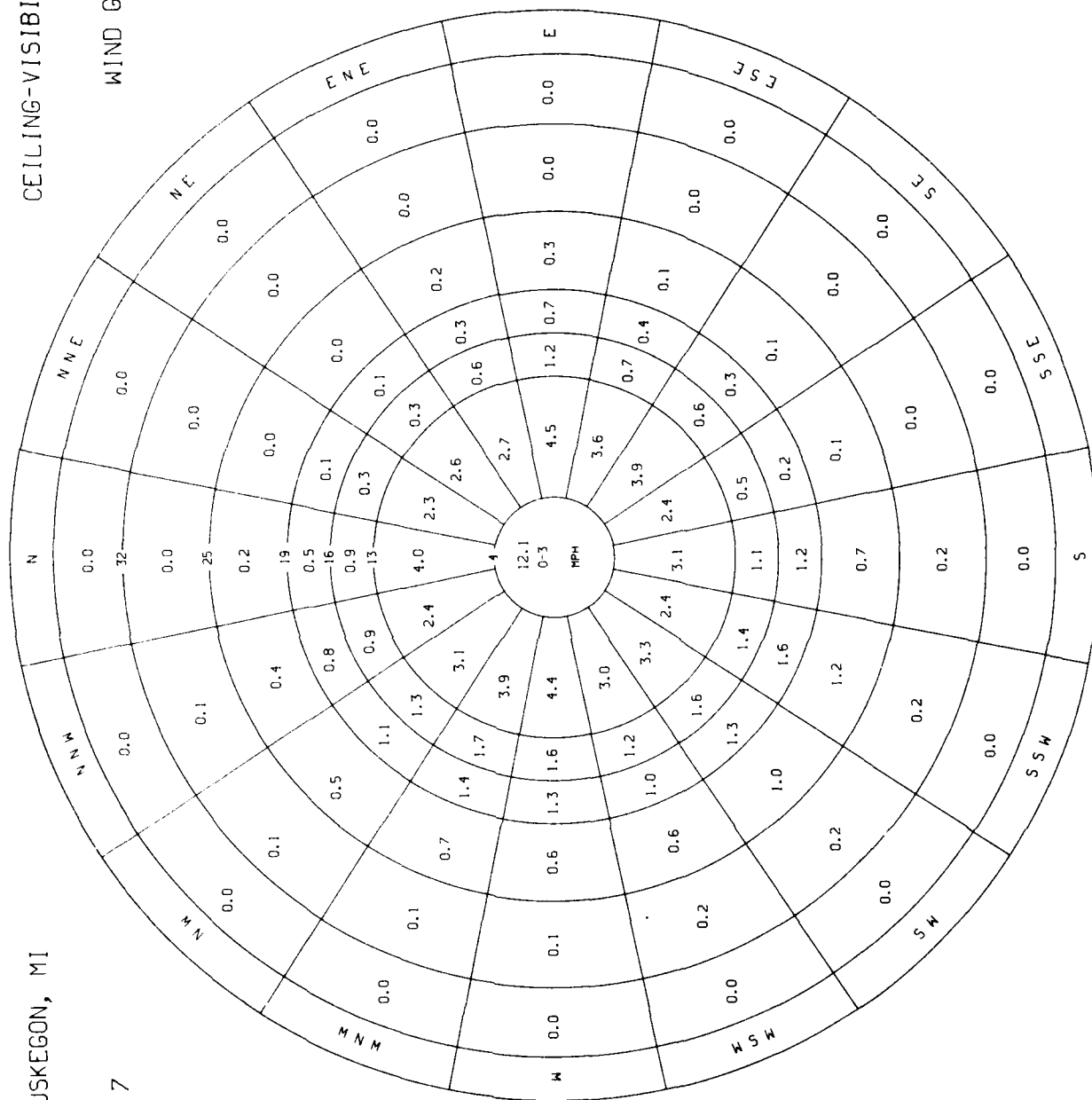
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
NNE	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
NNE	.0	2.5	.0	1.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
ENE	.0	1.4	.0	1.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.6
E	.0	5.7	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.7
ESE	.0	.7	.0	3.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.3
ESE	.0	2.5	.1	6.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.3
SSE	.0	1.1	.0	2.9	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0 4.3
S	.0	1.8	.0	3.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 6.5
SSW	.0	1.1	.0	3.9	.0	.4	.0	.0	.0	.7	.0	.0	.0	.0	.1 6.8
SW	.0	3.2	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.0
WSW	.0	.7	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9
W	.0	1.1	.0	4.3	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.1 6.5
WNW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0 4.3
NW	.0	.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0 2.9
NNW	.0	.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
CALM	.2	18.6													.2 18.6
TOTAL	.4	42.7	.4	49.1	.0	4.3	.0	.4	.0	1.1	.0	1.4	.0	1.1	.9 10.0
															5.7

CEILING-VISIBILITY

WIND GRAPH

MKG MUSKEGON, MI

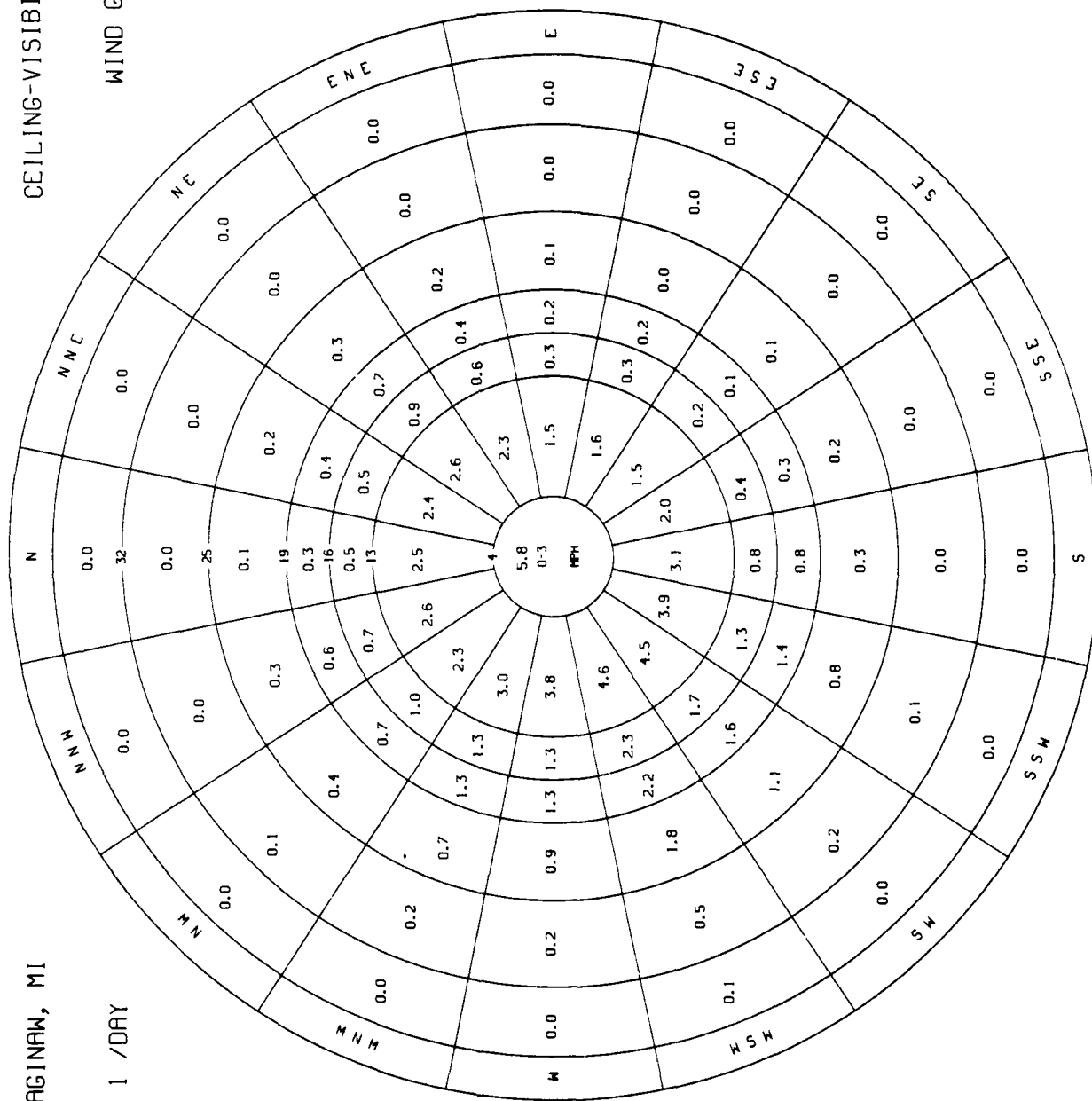
CLASS 7



CEILING-VISIBILITY WIND GRAPH

MBS SAGINAW, MI

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 1 / DAY

STATION NUMBER: 14845

NO. OBS.: 14953

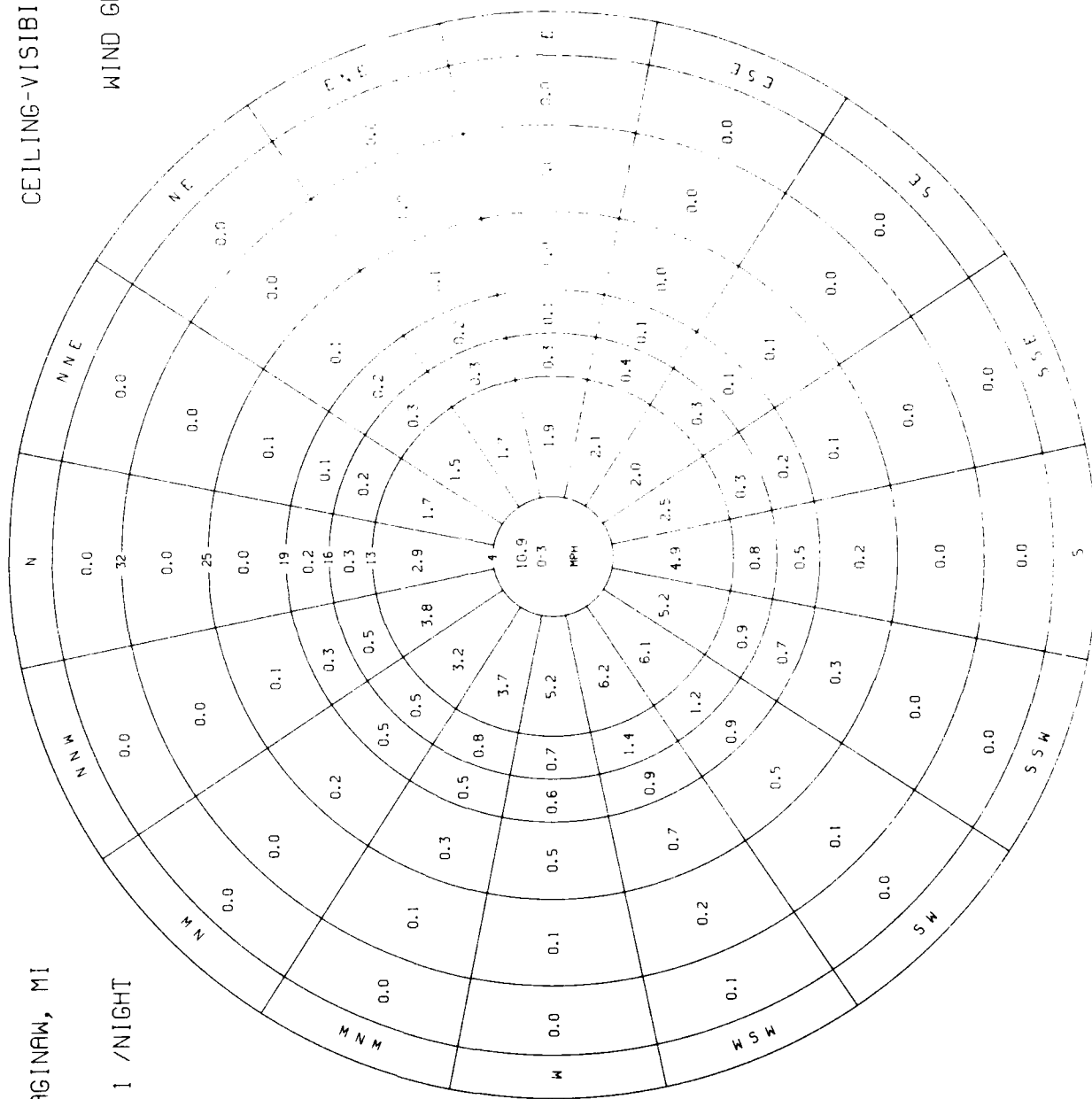
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.3	.4	2.5	3.0	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.8	4.4	9.7
NNE	.3	.4	2.4	2.8	.5	.6	.4	.5	.2	.2	.0	.0	.0	.0	3.9	4.6	10.5
NE	.2	.3	2.6	3.0	.9	1.1	.7	.9	.3	.4	.0	.0	.0	.0	4.8	5.6	11.7
ENE	.2	.2	2.3	2.7	.6	.7	.4	.5	.2	.3	.0	.0	.0	.0	3.7	4.4	11.0
E	.2	.2	1.5	1.7	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.2	2.6	9.8
ESE	.3	.3	1.6	1.9	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	2.4	2.8	9.4
SE	.4	.4	1.5	1.7	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.3	2.7	8.7
SSE	.3	.3	2.0	2.3	.4	.5	.3	.4	.2	.2	.0	.0	.0	.0	3.2	3.7	10.5
S	.3	.4	3.1	3.6	.8	1.0	.8	.9	.3	.4	.0	.0	.0	.0	5.4	6.3	11.2
SSW	.3	.4	3.9	4.6	1.3	1.5	1.4	1.6	.8	.9	.1	.1	.0	.0	7.7	9.0	12.3
SW	.5	.5	4.5	5.2	1.7	2.0	1.6	1.8	1.1	1.3	.2	.2	.0	.1	9.6	11.2	12.8
WSW	.3	.4	4.6	5.4	2.3	2.7	2.2	2.6	1.8	2.0	.5	.6	.1	.2	11.9	13.9	14.2
W	.5	.6	3.8	4.5	1.3	1.5	1.3	1.5	.9	1.0	.2	.2	.0	.0	8.0	9.3	12.3
WNW	.3	.3	3.0	3.4	1.3	1.5	1.3	1.5	.7	.8	.2	.2	.0	.0	6.7	7.8	13.0
NW	.3	.3	2.3	2.7	1.0	1.1	.7	.8	.4	.5	.1	.1	.0	.0	4.7	5.5	12.0
NNW	.3	.3	2.6	3.0	.7	.8	.6	.7	.3	.4	.0	.0	.0	.0	4.5	5.2	11.1
CALM	1.0	1.1													1.0	1.1	
TOTAL	5.8	6.8	44.1	51.4	14.3	16.7	12.5	14.6	7.5	8.7	1.3	1.6	.2	.3	85.8	100	11.8

CEILING-VISIBILITY

WIND GRAPH

MBS SAGINAW, MI

CLASS 1 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 14845

NO. OBS.: 12527

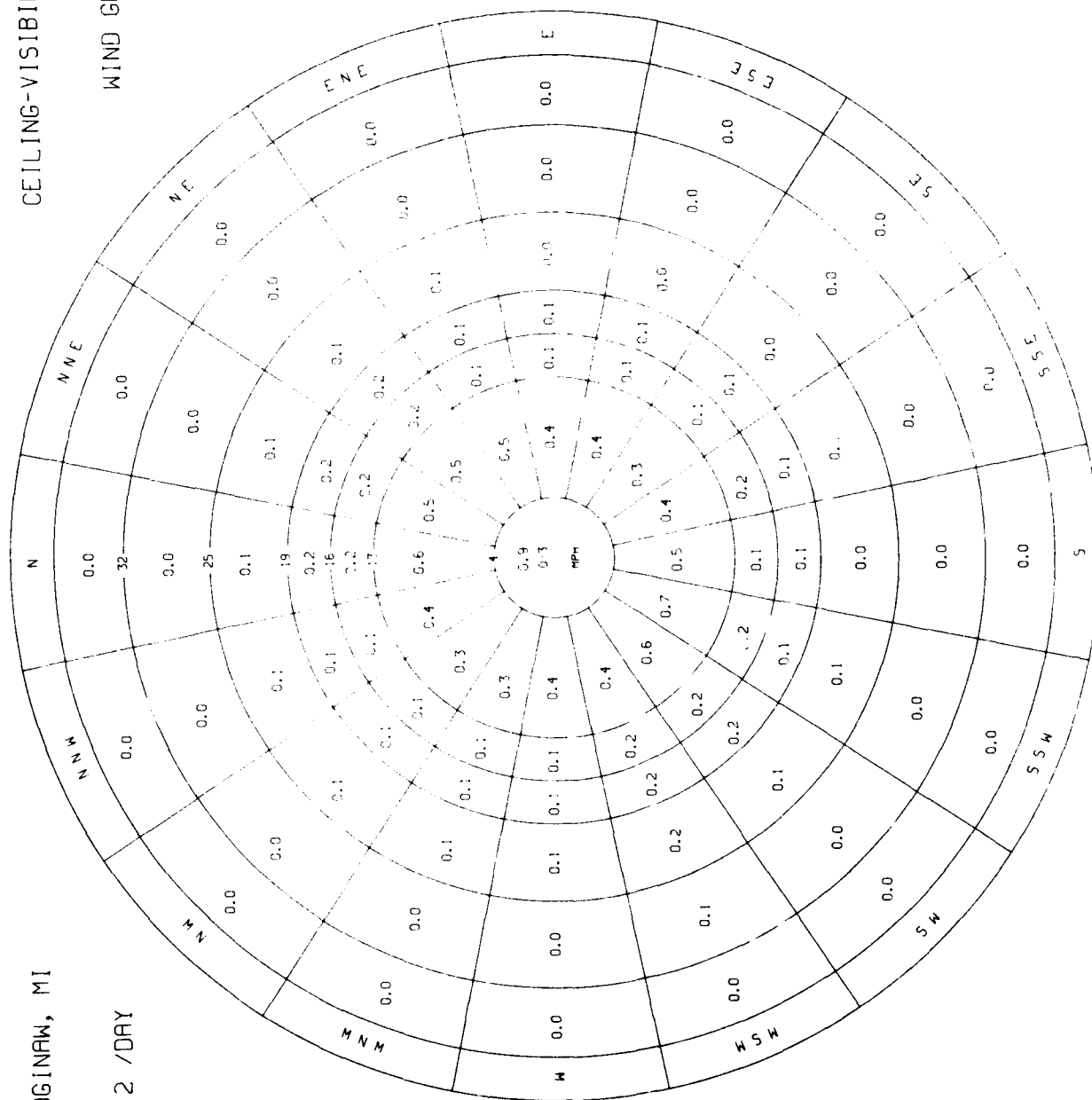
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.7	.8	2.9	3.4	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	4.1	4.8	7.8
NNE	.5	.5	1.7	2.0	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.6	3.1	8.5
NE	.5	.5	1.5	1.7	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.5	2.9	8.9
ENE	.3	.4	1.7	2.0	.3	.4	.2	.2	.1	.2	.0	.0	.0	.0	2.7	3.2	9.5
E	.3	.3	1.9	2.2	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	2.6	3.1	9.1
ESE	.5	.6	2.1	2.5	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.7	8.1
SE	.5	.5	2.0	2.4	.3	.4	.1	.1	.1	.1	.0	.0	.0	.0	3.0	3.5	8.3
SSE	.4	.5	2.5	3.0	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.6	4.2	9.3
S	.5	.6	4.9	5.7	.8	.9	.5	.6	.2	.2	.0	.0	.0	.0	6.9	8.2	9.5
SSW	.5	.6	5.2	6.1	.9	1.1	.7	.9	.3	.4	.0	.0	.0	.0	7.7	9.1	10.2
SW	1.0	1.2	6.1	7.2	1.2	1.4	.9	1.0	.5	.6	.1	.2	.0	.0	9.8	11.5	10.0
WSW	.7	.8	6.2	7.2	1.4	1.6	.9	1.0	.7	.8	.2	.2	.1	.1	10.0	11.8	11.1
W	.9	1.0	5.2	6.1	.7	.9	.6	.8	.5	.6	.1	.1	.0	.0	8.1	9.5	9.8
WNW	.5	.6	3.7	4.3	.8	.9	.5	.5	.3	.4	.1	.1	.0	.0	5.8	6.8	10.3
NW	.5	.6	3.2	3.8	.5	.6	.5	.6	.2	.3	.0	.0	.0	.0	5.0	5.8	9.7
NNW	.5	.6	3.8	4.5	.5	.6	.3	.3	.1	.2	.0	.0	.0	.0	5.3	6.2	8.8
CALM	2.3	2.7													2.3	2.7	
TOTAL	10.9	12.8	54.7	64.1	9.4	11.0	6.0	7.0	3.4	4.0	.7	.8	.2	.2	85.2	100	9.4

CEILING-VISIBILITY

WIND GRAPH

MBS SAGINAW, MI

CLASS 2 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: MBS CASINAW, MI

CLASS 2 / DAY

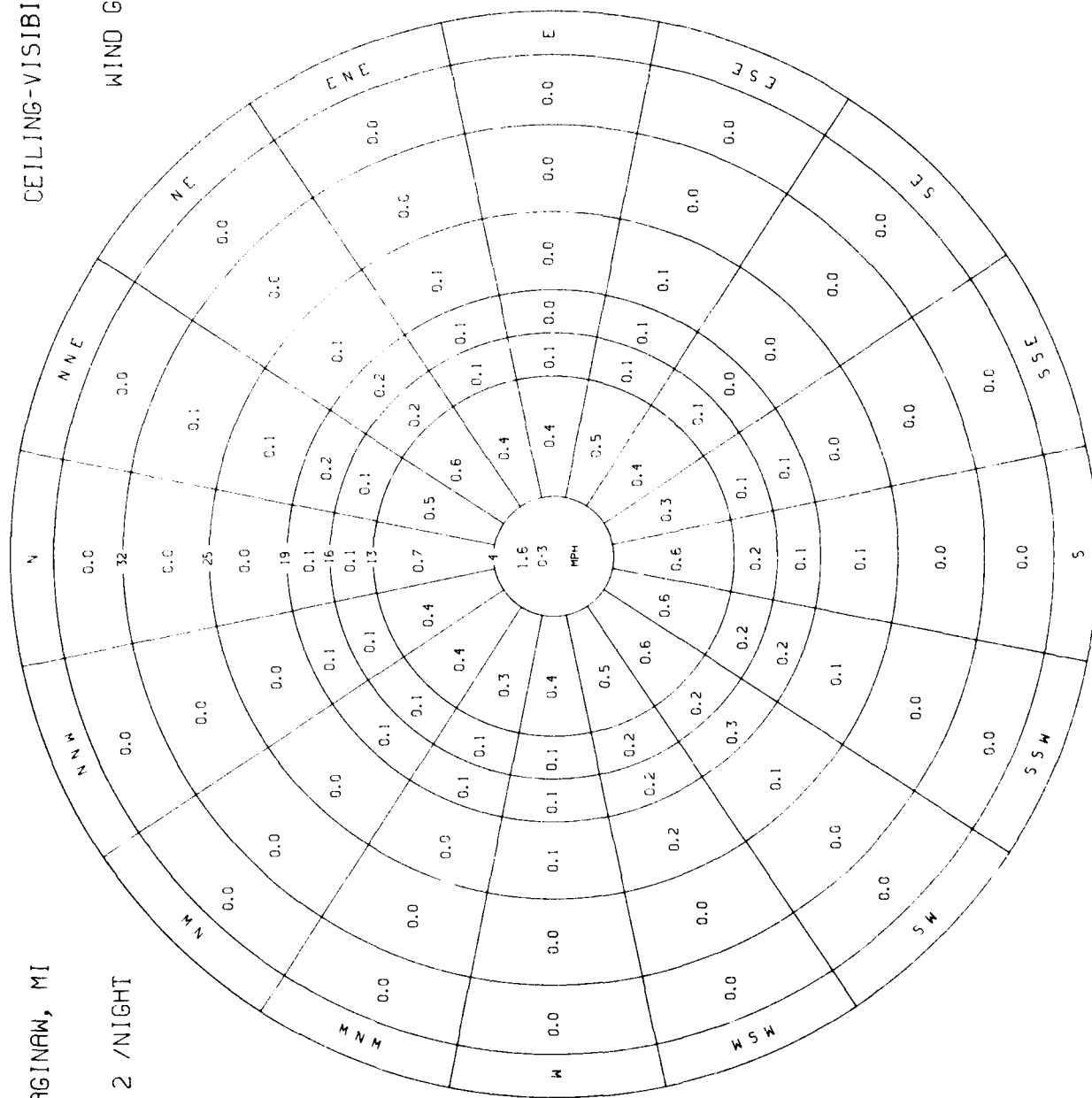
NO. OBS.: 2474

STATION NUMBER: 14949

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.6	4.4	.2	1.3	.2	1.4	.1	.4	.0	.1	.0	.0	1.1	8.0	11.6
NNE	.1	.4	.5	3.6	.2	1.3	.2	1.2	.1	1.0	.0	.3	.0	.0	1.1	7.8	13.0
NE	.0	.3	.5	3.6	.2	1.5	.2	1.7	.1	1.0	.0	.2	.0	.0	1.2	8.4	13.1
ENE	.0	.3	.5	3.2	.1	1.0	.1	.6	.1	.6	.0	.2	.0	.0	.8	6.0	12.4
E	.0	.2	.4	2.5	.1	.6	.1	.6	.0	.3	.0	.0	.0	.0	.6	4.3	11.2
ESE	.1	.4	.4	3.0	.1	.7	.1	.7	.0	.3	.0	.0	.0	.0	.7	5.1	10.8
SE	.0	.3	.3	2.4	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.6	4.1	10.7
SSE	.0	.3	.4	2.7	.2	1.2	.1	.6	.0	.3	.0	.1	.0	.0	.7	5.2	11.8
S	.0	.3	.5	3.2	.1	.9	.1	.9	.0	.3	.0	.0	.0	.0	.8	5.7	11.0
SSW	.1	.4	.7	1.7	.2	1.2	.1	.7	.1	.5	.0	.1	.0	.0	1.1	7.6	11.1
SW	.0	.3	.6	4.1	.2	1.6	.2	1.5	.1	1.0	.0	.2	.0	.0	1.2	8.7	12.8
WSW	.0	.2	.4	3.1	.2	1.7	.2	1.5	.2	1.4	.1	.6	.0	.3	1.3	8.9	15.2
W	.0	.3	.4	2.7	.1	.8	.1	.9	.1	.8	.0	.2	.0	.0	.8	5.7	12.8
WNW	.0	.2	.3	2.1	.1	.8	.1	.8	.1	.5	.0	.2	.0	.0	.7	4.6	13.1
NW	.0	.2	.3	1.8	.1	.7	.1	.4	.1	.5	.0	.0	.0	.0	.5	3.7	12.0
NNW	.0	.3	.4	2.6	.1	.8	.1	.6	.1	.4	.0	.0	.0	.0	.7	4.8	11.5
CALM	.2	.4													.2	1.4	
TOTAL	.9	6.2	7.1	49.9	2.4	17.1	2.1	14.7	1.3	9.3	.3	2.3	.1	.4	14.2	100	12.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS: 2 / NIGHT

STATION NUMBER: 14345

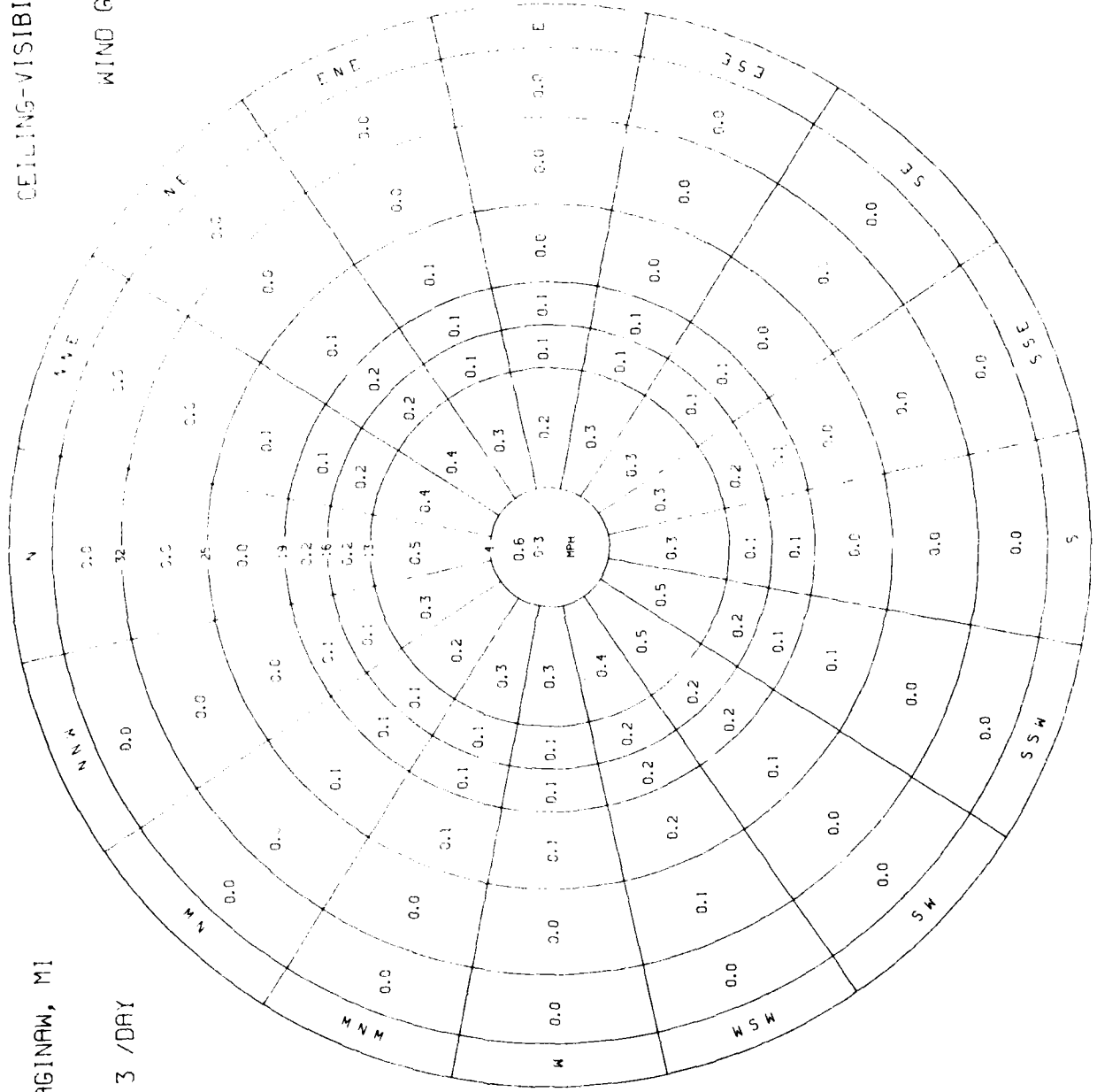
NO. OBS.: 2170

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	1.0	.7	4.7	.1	.7	.1	1.0	.0	.2	.0	.0	.0	.0	1.1	7.7	9.9
NNE	.1	.6	.5	3.4	.1	.9	.2	1.5	.1	1.0	.1	.4	.0	.0	1.1	7.7	12.7
NE	.1	.5	.6	3.8	.2	1.6	.2	1.3	.1	.9	.0	.3	.0	.1	1.3	8.5	13.2
ENE	.1	.7	.4	2.8	.1	1.0	.1	1.0	.1	.7	.0	.1	.0	.1	.9	6.4	12.5
E	.0	.3	.4	2.8	.1	1.0	.0	.3	.0	.2	.0	.0	.0	.0	.7	4.6	10.6
ESE	.1	.7	.5	3.5	.1	.5	.1	.6	.1	.4	.0	.0	.0	.0	.8	5.7	9.9
SE	.0	.2	.4	2.7	.1	.4	.0	.2	.0	.2	.0	.0	.0	.0	.5	3.7	9.8
SSE	.1	.4	.3	2.1	.1	.8	.1	.4	.0	.2	.0	.0	.0	.0	.6	3.9	10.9
S	.1	.5	.6	3.7	.2	1.4	.1	.8	.1	.4	.0	.1	.0	.0	1.0	6.8	10.9
SSW	.0	.3	.6	3.8	.2	1.4	.2	1.3	.1	.4	.0	.1	.0	.0	1.1	7.3	11.7
SW	.1	.8	.6	4.2	.2	1.2	.3	1.7	.1	.3	.0	.1	.0	.0	1.3	9.0	12.0
WSW	.1	.8	.5	3.3	.2	1.1	.2	1.2	.2	.1	.0	.3	.0	.1	1.2	7.8	12.9
W	.1	.5	.4	2.7	.1	.6	.1	.6	.1	.5	.0	.0	.0	.0	.7	4.8	10.9
WNW	.0	.3	.3	2.3	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.7	4.4	10.9
NW	.0	.3	.4	2.5	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.0	10.4
NNW	.1	.6	.4	2.9	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.8	5.4	11.2
CALM	.3	2.2													.3	2.2	
TOTAL	1.6	10.6	7.6	51.3	2.2	14.7	2.0	13.3	1.1	7.8	.3	1.8	.5	.5	14.8	100	11.2

CEILING-VISIBILITY WIND GRAPH

MBS SAGINAW, MI

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS BAGINAW, MI

PERIOD: 1949-1978

CLASS 3 / DAY

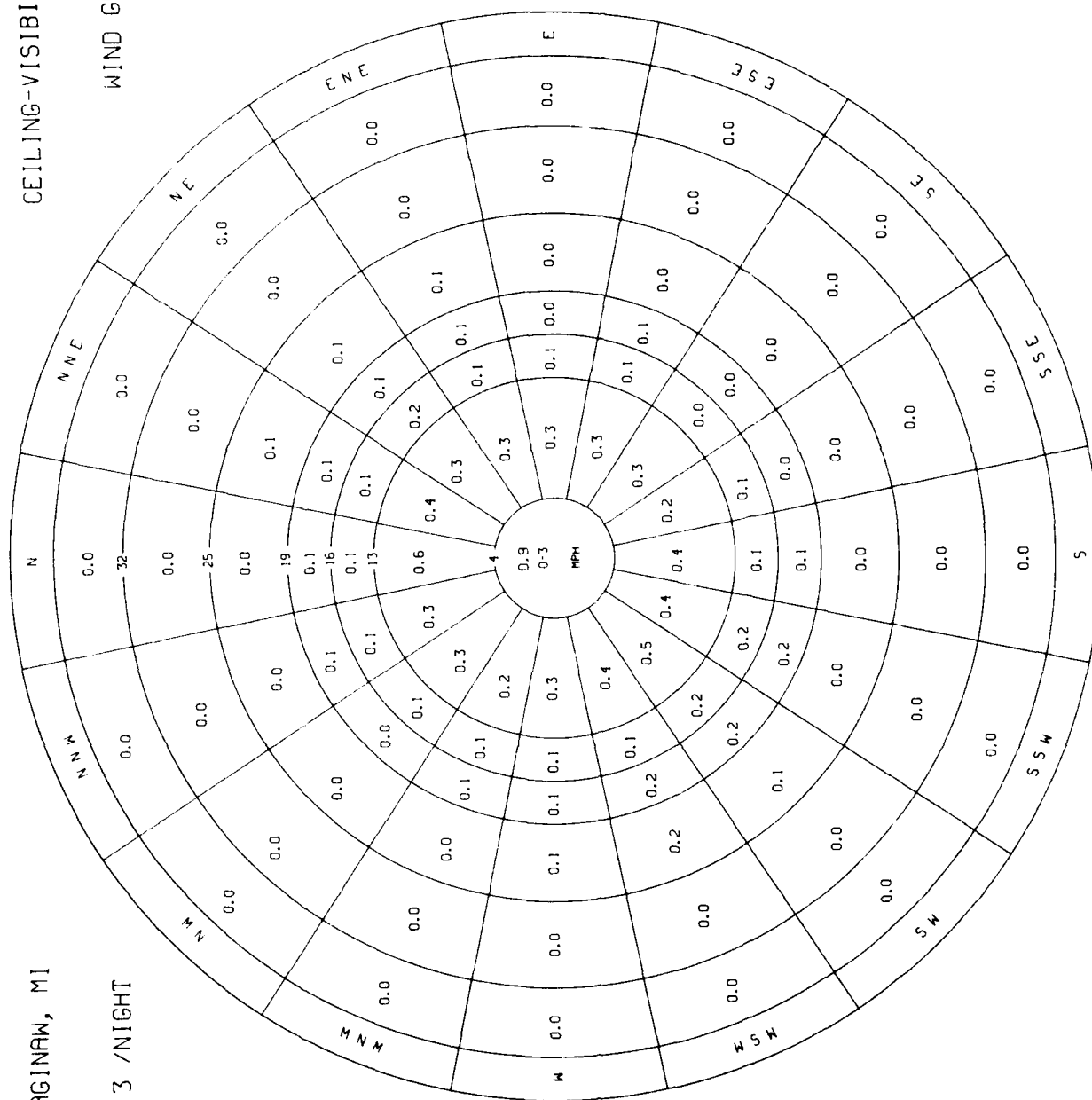
STATION NUMBER: 14845

NO. OBS.: 2316

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.5	4.0	.2	1.4	.2	1.5	.0	.4	.0	.1	.0	.0	.9	7.7	12.1
NNE	.0	.4	.4	3.4	.2	1.4	.1	1.3	.1	.9	.0	.3	.0	.0	.9	7.8	13.2
NE	.0	.3	.4	3.2	.2	1.4	.2	1.7	.1	.9	.0	.2	.0	.0	.9	7.7	13.2
ENE	.0	.3	.3	2.9	.1	.9	.1	.7	.1	.7	.0	.2	.0	.0	.7	5.9	13.0
E	.0	.1	.2	2.1	.1	.5	.1	.7	.0	.3	.0	.0	.0	.0	.4	3.7	11.9
ESE	.0	.2	.3	2.9	.1	.7	.1	.9	.0	.3	.0	.0	.0	.0	.6	5.0	11.5
SE	.0	.3	.3	2.2	.1	.7	.1	.6	.0	.0	.0	.0	.0	.0	.5	4.0	10.9
SSE	.0	.1	.3	2.8	.2	1.4	.1	.7	.0	.3	.0	.0	.0	.0	.6	5.4	11.9
S	.0	.2	.3	2.7	.1	.8	.1	1.0	.0	.4	.0	.0	.0	.0	.6	5.2	11.9
SSW	.0	.3	.5	4.3	.2	1.4	.1	.7	.1	.6	.0	.0	.0	.0	.9	7.4	11.8
SW	.0	.3	.5	4.0	.2	1.8	.2	1.7	.1	1.2	.0	.2	.0	.0	1.1	9.3	13.1
WSW	.0	.2	.4	3.5	.2	1.8	.2	1.8	.2	1.6	.1	.6	.0	.3	1.1	9.8	15.4
W	.0	.3	.3	2.9	.1	.9	.1	1.1	.1	.8	.0	.2	.0	.0	.7	6.3	13.1
WNW	.0	.1	.3	2.2	.1	.9	.1	.9	.1	.5	.0	.1	.0	.0	.6	4.9	13.3
NW	.0	.1	.2	1.7	.1	.3	.1	.5	.1	.5	.0	.0	.0	.0	.4	3.8	12.8
NNW	.0	.3	.3	2.8	.1	.8	.1	.7	.0	.4	.0	.0	.0	.0	.6	5.2	11.6
CALM	.1	.9													.1	.9	
TOTAL	.6	5.0	5.5	47.7	2.1	17.9	1.9	16.6	1.2	10.0	.3	2.4	.1	.4	11.6	100	12.6

MBS SAGINAW, MI

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 3 / NIGHT

NO. OBS.: 1618

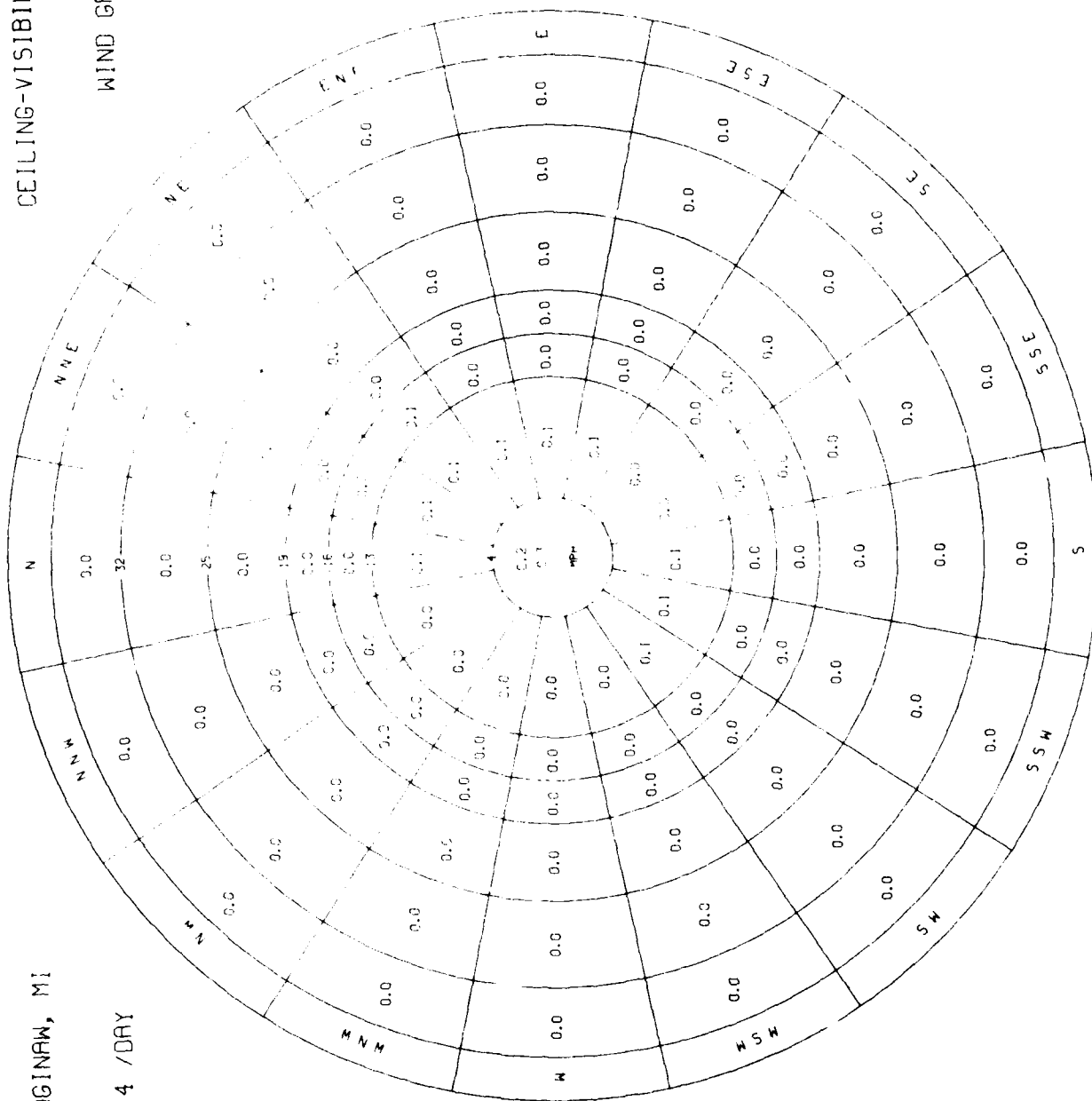
STATION NUMBER: 14845

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.6	.6	5.1	.1	.7	.1	1.0	.0	.2	.0	.0	.0	.1	.8	7.7	10.3
NNE	.1	.5	.4	3.5	.1	.0	.1	1.4	.1	1.1	.0	.4	.0	.0	.9	7.8	13.0
N	.0	.4	.3	2.7	.2	1.5	.1	1.2	.1	.6	.0	.2	.0	.0	.7	6.7	13.1
ENE	.0	.4	.3	2.7	.1	.9	.1	1.0	.1	.9	.0	.1	.0	.1	.7	6.1	13.3
E	.0	.3	.3	2.3	.1	1.2	.0	.3	.0	.3	.0	.1	.0	.0	.5	4.5	11.3
ESE	.0	.4	.3	2.7	.1	.6	.1	.6	.0	.4	.0	.1	.0	.0	.5	4.8	11.2
SE	.0	.2	.3	3.0	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.4	4.0	9.8
SSE	.0	.4	.2	2.1	.1	.8	.0	.4	.0	.2	.0	.0	.0	.0	.4	3.9	11.2
S	.0	.4	.4	3.6	.1	1.4	.1	.9	.0	.4	.0	.0	.0	.0	.7	6.7	11.4
SSW	.0	.1	.4	3.8	.2	1.5	.2	1.7	.0	.4	.0	.2	.0	.1	.9	7.7	12.5
SW	.1	.6	.5	4.5	.2	1.5	.2	2.1	.1	1.2	.0	.1	.0	.0	1.1	10.1	12.7
WSW	.1	.7	.4	3.5	.1	1.2	.2	1.5	.2	1.4	.0	.4	.0	.1	1.0	8.9	13.7
W	.0	.4	.3	2.8	.1	.7	.1	.7	.1	.6	.0	.1	.0	.0	.6	5.3	11.5
WNW	.0	.2	.2	2.0	.1	1.2	.1	.6	.0	.4	.0	.1	.0	.0	.5	4.6	11.9
NW	.0	.4	.3	2.6	.1	.8	.0	.4	.0	.2	.0	.0	.0	.0	.5	4.4	10.6
NNW	.1	.5	.3	3.1	.1	.8	.1	.7	.0	.4	.0	.1	.0	.0	.6	5.6	11.5
CALM	.1	1.3													.1	1.3	
TOTAL	.9	7.8	5.5	49.9	1.8	16.1	1.6	14.8	1.0	9.1	.2	1.9	.0	.4	11.0	100	11.8

CEILING-VISIBILITY WIND GRAPH

MBS SAGINAW, MI

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: MBS SAGINAW, MI

CLASS 4 / DAY

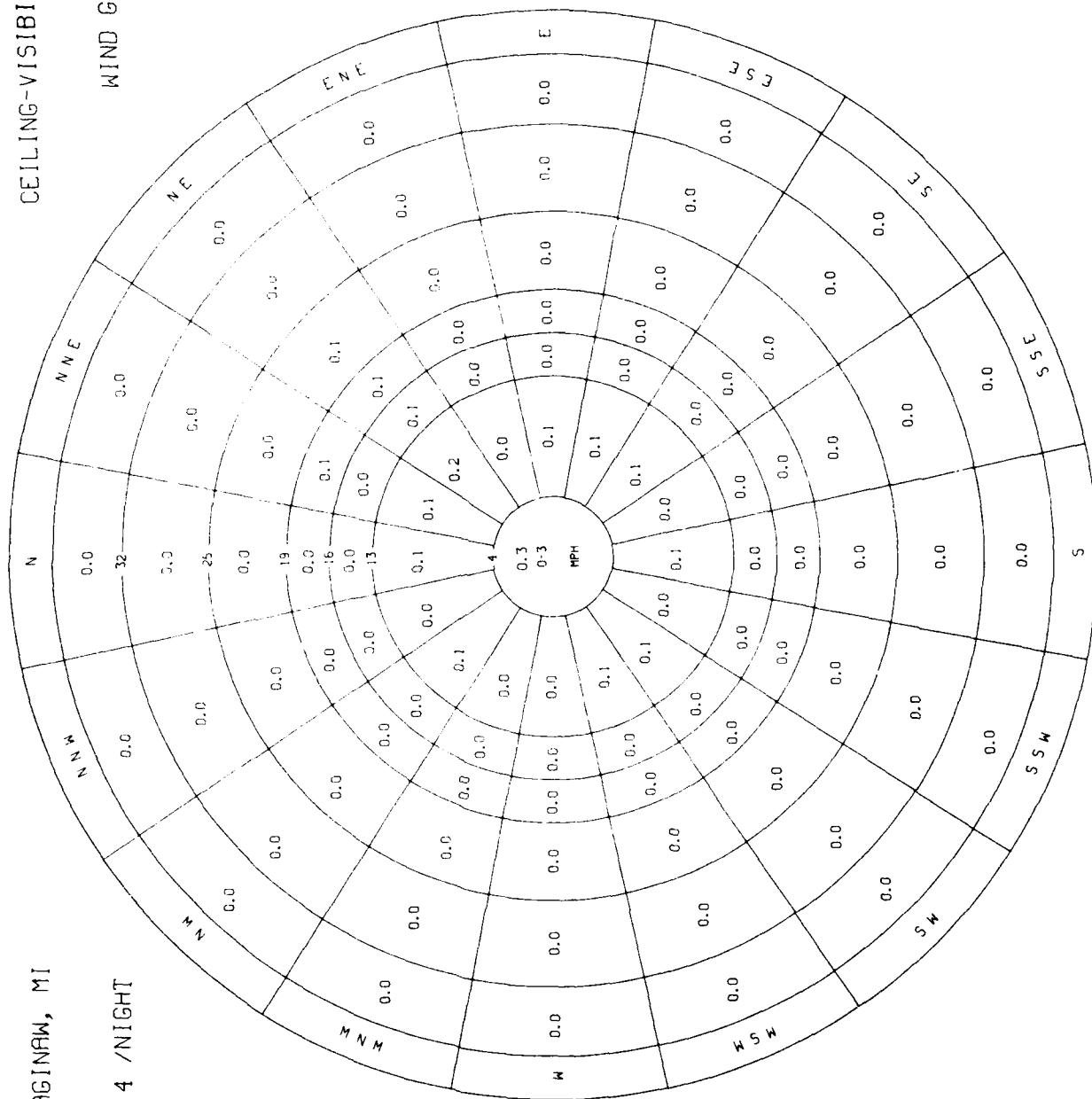
NO. OBS.: 313

STATION NUMBER: 14845

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.1	6.1	.0	1.3	.0	1.6	.0	.6	.0	.0	.0	.0	.2 10.5 11.1
NNE	.0	.3	.1	5.1	.0	1.3	.0	1.0	.0	1.6	.0	.3	.0	.0	.2 9.6 13.1
NNE	.0	.3	.1	5.8	.1	3.2	.0	1.9	.0	1.3	.0	.3	.0	.0	.2 12.8 13.0
ENE	.0	.0	.1	5.8	.0	1.9	.0	.3	.0	.6	.0	.0	.0	.0	.2 8.6 11.1
E	.0	.3	.1	4.5	.0	1.3	.0	.6	.0	.3	.0	.0	.0	.0	.1 7.0 9.9
ESE	.0	.6	.1	4.2	.0	.6	.0	.3	.0	.6	.0	.0	.0	.0	.1 6.4 8.9
SE	.0	.3	.0	1.9	.0	1.6	.0	.0	.0	.3	.0	.0	.0	.0	.1 4.2 11.1
SSE	.0	1.0	.0	2.6	.0	.6	.0	.3	.0	.3	.0	.3	.0	.3	.1 5.4 12.1
S	.0	1.0	.1	4.5	.0	1.6	.0	.6	.0	.0	.0	.0	.0	.0	.1 7.7 9.4
SSW	.0	.0	.1	4.8	.0	.6	.0	.6	.0	.0	.0	.3	.0	.0	.1 6.4 10.2
SW	.0	.0	.1	3.5	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1 3.8 9.7
WSW	.0	.3	.0	.6	.0	1.3	.0	.6	.0	.6	.0	.6	.0	.0	.1 4.2 15.8
W	.0	.3	.0	1.9	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.1 3.2 10.5
WNW	.0	.6	.0	1.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0 2.6 9.9
NW	.0	.6	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 2.9 7.2
NNW	.0	.0	.0	1.9	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.1 2.9 11.2
CALM	.0	1.9													.0 1.9
TOTAL	.2	8.6	1.0	56.5	.3	16.0	.2	9.3	.1	7.0	.0	2.2	.0	.3	1.8 10.9

CEILING-VISIBILITY

WIND GRAPH



MBS SAGINAW, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 4 / NIGHT

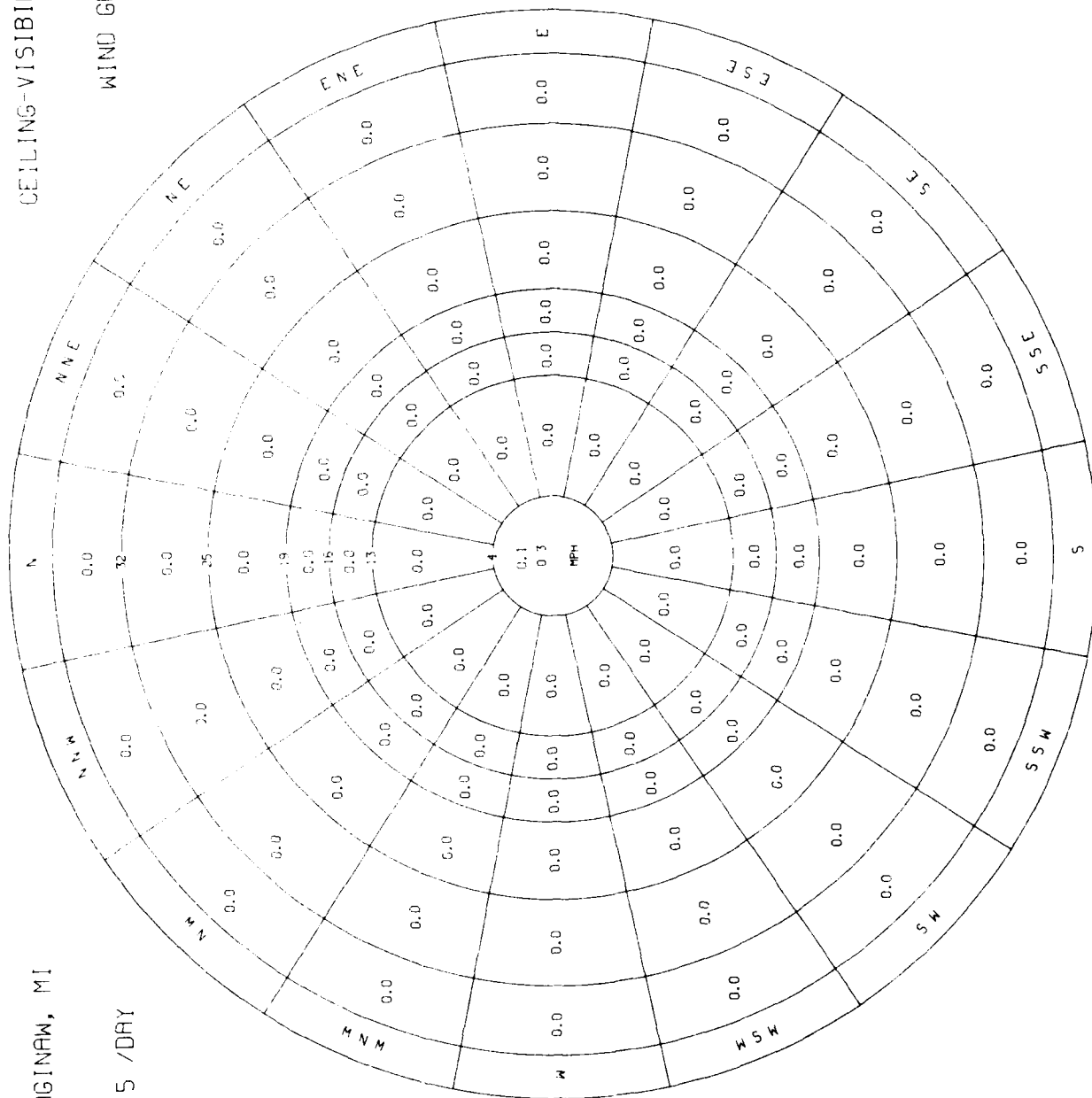
STATION NUMBER: 14845

NO. OBS.: 338

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	1.5	.1	3.6	.0	.9	.0	1.5	.0	.3	.0	.3	.0	.0	.0	.2	8.0	10.4
NNE	.0	.9	.1	3.8	.0	1.2	.1	2.4	.0	.9	.0	.3	.0	.0	.0	.2	9.5	12.6
NE	.0	.0	.2	8.0	.1	2.7	.1	2.4	.1	2.7	.0	.9	.0	.9	.0	.4	17.5	14.8
ENE	.0	1.2	.0	2.1	.0	2.1	.0	1.2	.0	.3	.0	.6	.0	.0	.0	.2	7.4	12.3
E	.0	.0	.1	4.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.3	9.3
ESE	.0	1.5	.1	4.7	.0	.3	.0	.6	.0	.3	.0	.0	.0	.0	.0	.2	7.4	8.5
SE	.0	.3	.1	2.7	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	4.1	10.0
SSE	.0	.0	.0	2.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.0	10.7
S	.0	.3	.1	3.8	.0	1.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.1	6.5	10.8
SSW	.0	.3	.0	2.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.3	9.7
SW	.0	1.2	.1	3.3	.0	.6	.0	.9	.0	.0	.0	.3	.0	.0	.0	.1	6.2	9.8
WSW	.0	.9	.1	2.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.7	8.8
W	.0	.9	.0	1.8	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.1	3.6	9.1
WNW	.0	.3	.0	2.1	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.1	3.3	9.9
NW	.0	.3	.1	3.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.1	4.1	9.8
NNW	.0	.6	.0	2.1	.0	.6	.0	.9	.0	.0	.0	.3	.0	.0	.0	.1	4.4	11.5
CALM	.0	1.8														.0	1.8	
TOTAL	.3	11.8	1.2	52.7	.3	14.5	.3	12.1	.1	5.0	.1	2.7	.0	1.2	.0	2.3	100	11.0

CEILING-VISIBILITY WIND GRAPH

MBS SAGINAW, MI
CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 5 / DAY

STATION NUMBER: 14845

NO. OBS.: 64

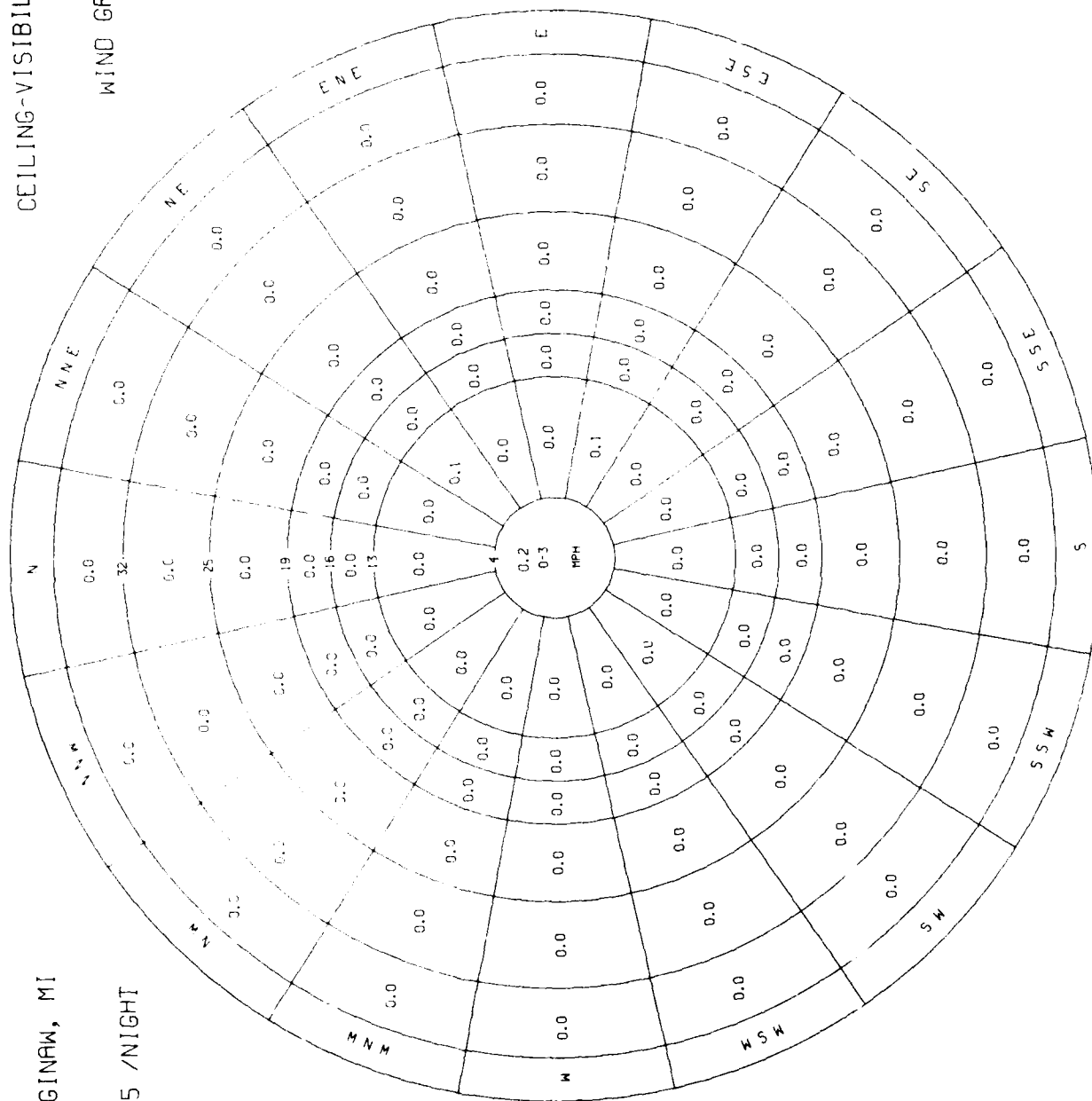
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	4.7
NNE	.0	.0	.0	3.1	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	4.7	10.7
NE	.0	.0	.0	7.8	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	10.9	12.3
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	3.1	.0	1.6	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	7.8	10.8
ESE	.0	1.6	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	5.8
SE	.0	.0	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	8.2
SSE	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.5
S	.0	1.6	.0	9.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	6.7
SSW	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	7.0
SW	.0	1.6	.0	1.6	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	6.3	12.7
WSW	.0	.0	.0	4.7	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	9.5
W	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	3.1	13.0
WNW	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	.0	1.6	.0	1.6	.0	.0	6.3	17.2
NW	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	4.7	12.3
NNW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	4.7	14.7
CALM	.0	4.7													.0	4.7	
TOTAL	1	17.2	2	59.4	.0	7.8	.0	1.6	.0	12.5	.0	1.6	.0	.0	.4	100	9.5

CEILING-VISIBILITY

WIND GRAPH

MBS SAGINAW, MI

CLASS 5 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS CASINAW, MO

PERIOD: 1949-1978

CLASS: F/1034

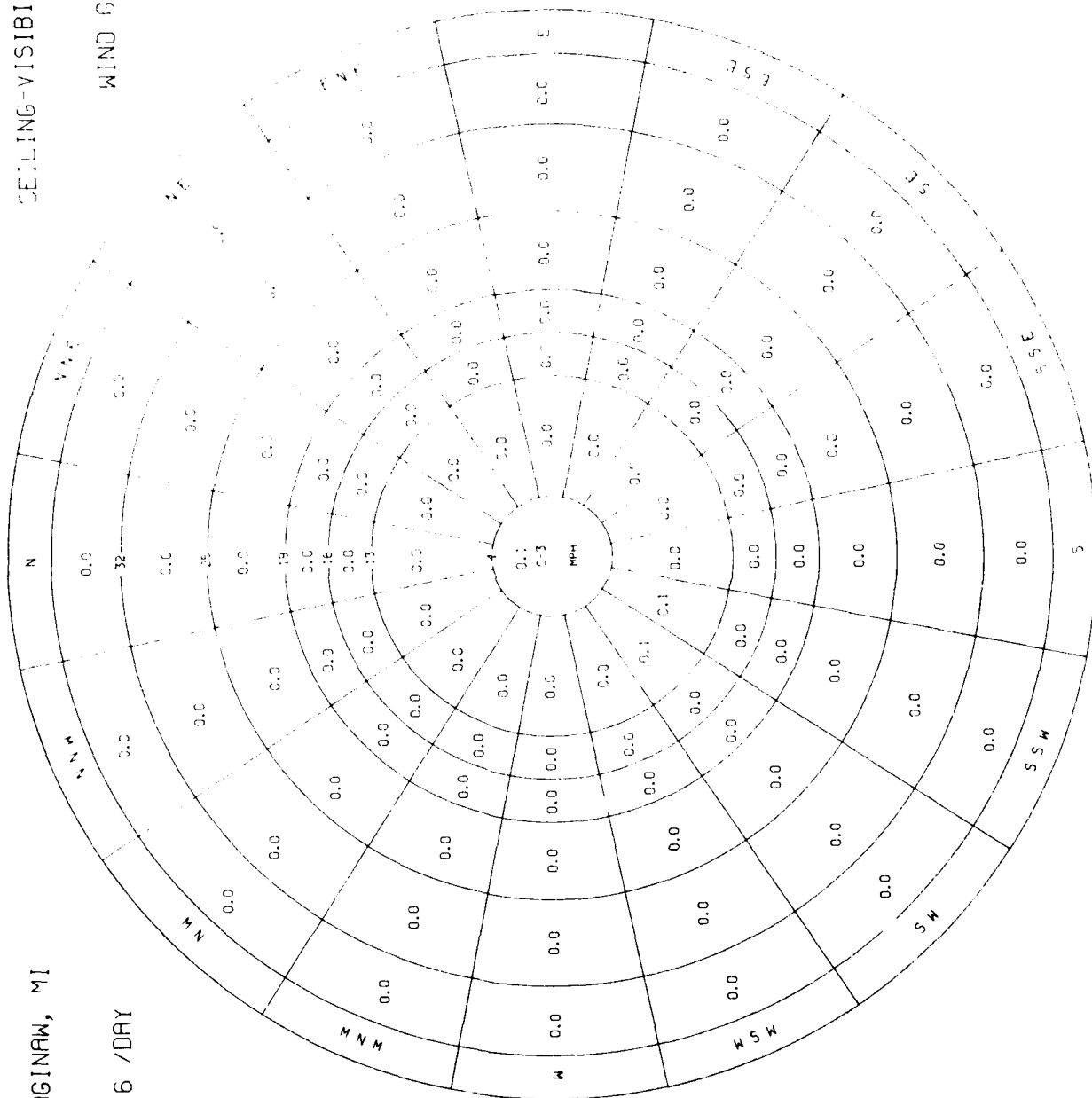
STATION NUMBER: 14245

NO. OBS.: 106

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	1.9	.0	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.5	7.7
NNE	.0	1.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	5.7	12.2
NE	.0	1.9	.1	8.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.4	8.6
ENE	.0	2.8	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.5	7.9
E	.0	.9	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	9.7
ESE	.0	1.9	.1	9.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.3	7.7
SE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	10.0
SSE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	11.4
S	.0	.9	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.5	10.0
SSW	.0	2.8	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.5	8.5
SW	.0	1.9	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.7
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.0
WNW	.0	.9	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.3
NW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	9.0
NNW	.0	.9	.0	1.9	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	4.7	9.8
CALM	.1	8.5													.1	8.5	
TOTAL	.2	27.4	.4	57.5	.0	4.7	.0	6.6	.0	2.8	.0	.9	.0	.0	.7	100	7.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS: 6 / 6A

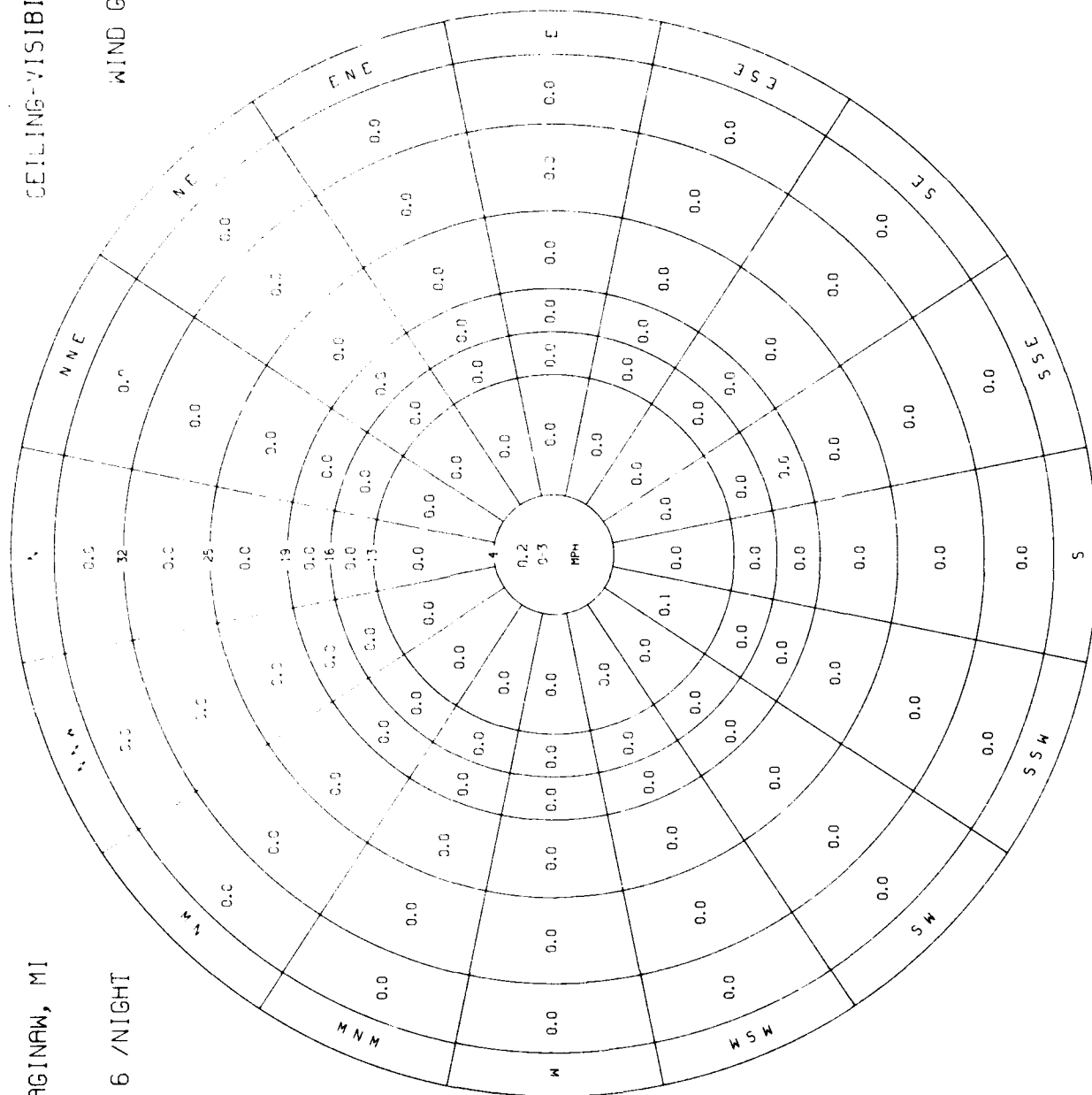
STATION NUMBER: 14545

NO. OBS.: 81

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
N	.0	1.2	.0	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7
NNE	.0	.0	.0	3.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
NE	.0	1.2	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5
ENE	.0	1.2	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0
E	.0	1.2	.0	4.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8
ESE	.0	1.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
SE	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	7.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8
SSW	.0	3.7	.0	13.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4
WSW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9
CALM	.0	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	12.0	.0	33.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4

MBS SAGINAW, MI

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS EAGLEHAW, MI

PERIOD: 1949-1978

CLASS 6 / NIGHT

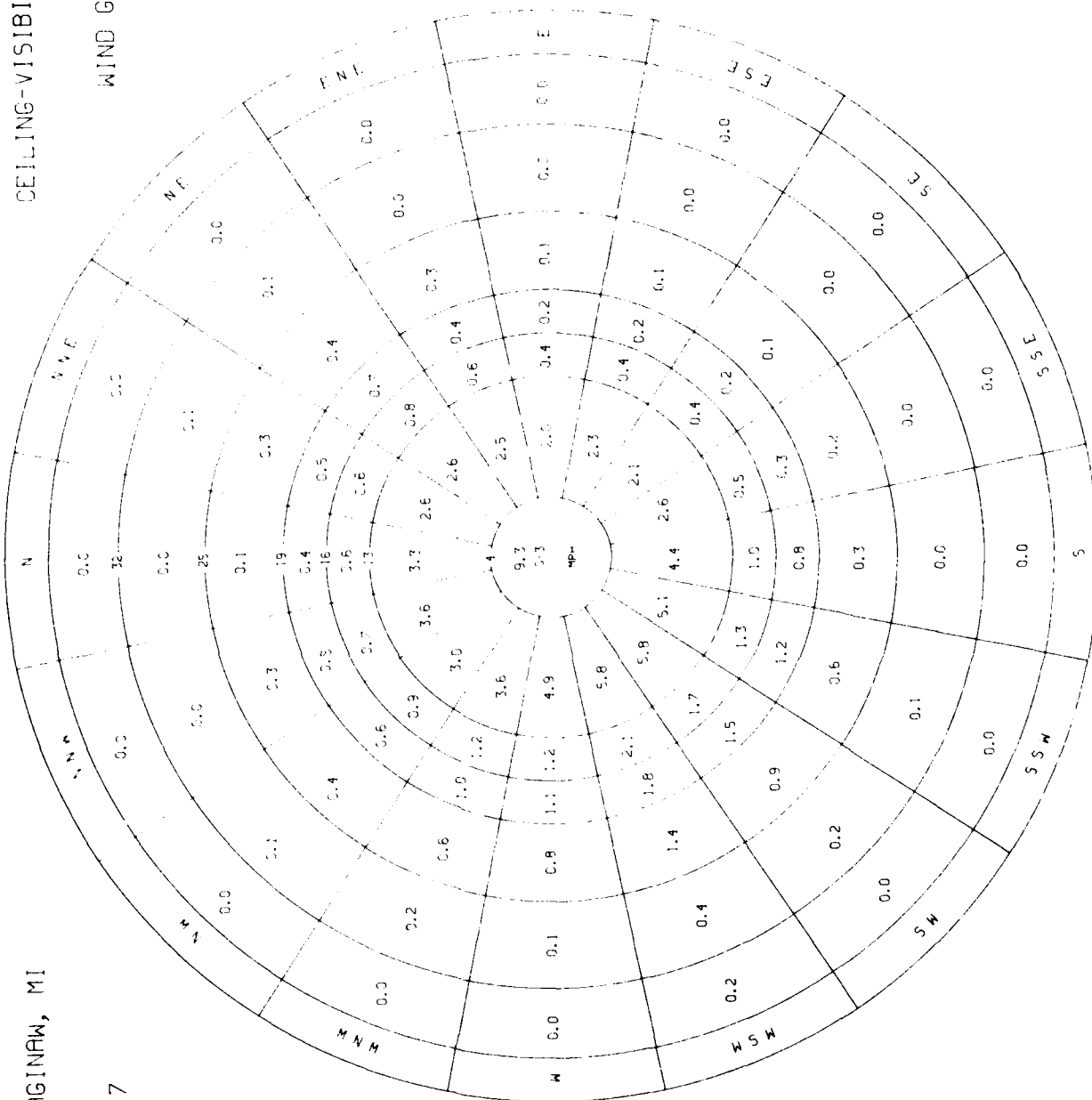
STATION NUMBER: 14245

NO. OBS.: 108

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	4.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5
NNE	.0	.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
NENE	.0	.9	.0	3.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	5.6
ENE	.0	.9	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5
E	.0	.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
ESE	.0	1.9	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.4
SE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
SSE	.0	1.9	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	5.6
S	.0	1.9	.0	4.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.1	7.4
SSW	.0	.9	.1	10.2	.0	.9	.0	.9	.0	.0	.0	.0	.0	.1	13.0
SW	.0	1.9	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6
WSW	.0	1.9	.0	6.5	.0	.0	.0	.0	.0	.9	.0	.0	.0	.1	9.3
W	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7
WNW	.0	.0	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6
NW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
NNW	.0	.9	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6
CALM	.1	12.0												.1	12.0
TOTAL	.2	31.5	.5	62.0	.0	4.6	.0	.9	.0	.9	.0	.0	.0	.7	100
															5.8

CEILING-VISIBILITY

WIND GRAPH



MBS SAGINAW, MI

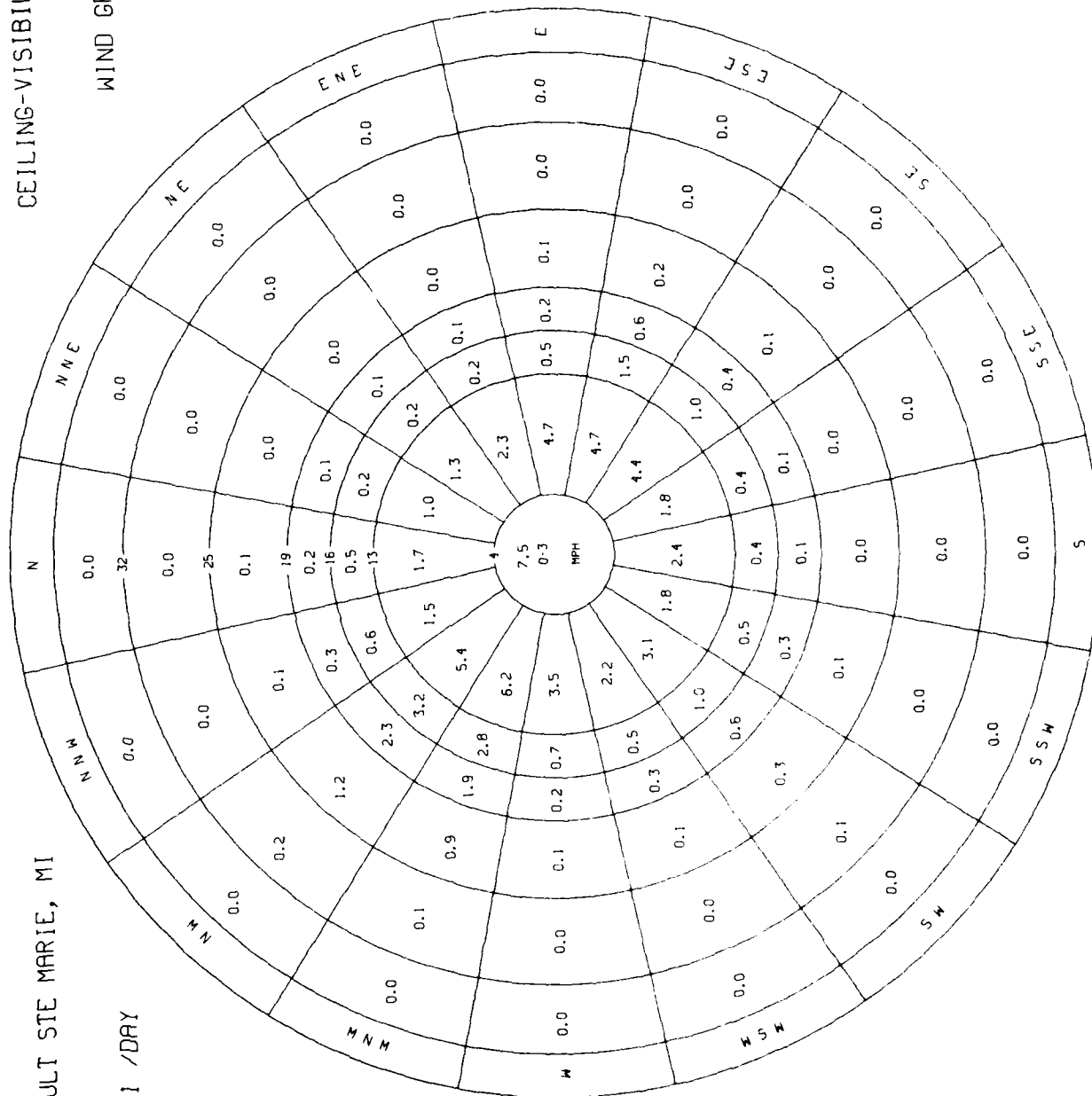
CLASS 7

CEILING-VISIBILITY

WIND GRAPH

SSM SAULT STE MARIE, MI

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 1 / DAY

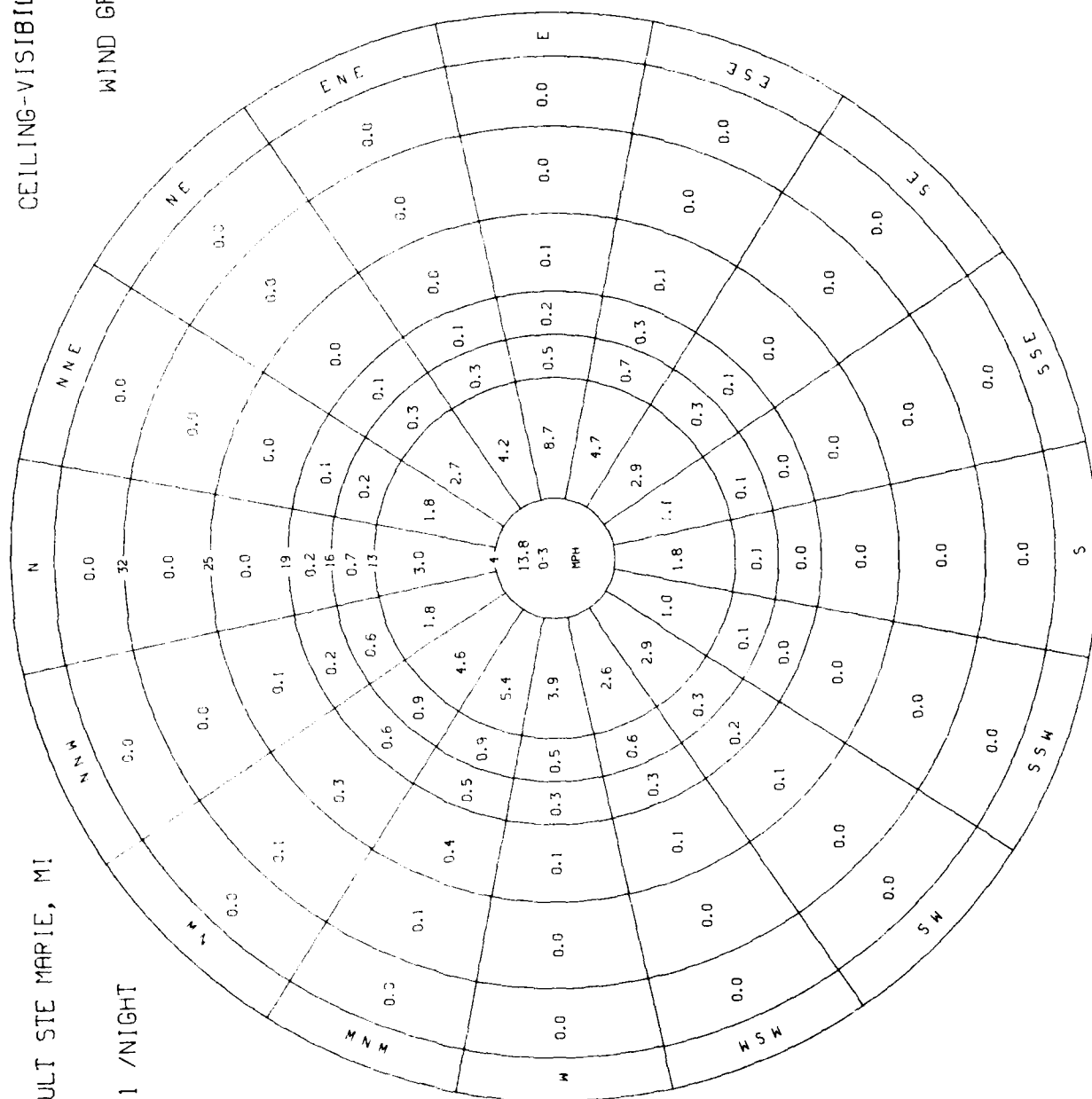
STATION NUMBER: 14847

NO. OBS.: 39090

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	.3	1.7	2.1	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	2.7 3.3 9.9
NNE	.1	.1	1.0	1.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.4 1.8 9.6
NE	.3	.4	1.3	1.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.9 2.4 8.1
ENE	.3	.4	2.3	2.8	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.9 3.6 7.8
E	.9	1.1	4.7	5.8	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	6.4 7.8 7.9
ESE	.4	.6	4.7	5.8	1.5	1.8	.6	.8	.2	.3	.0	.0	.0	.0	7.4 9.2 10.3
SE	.6	.8	4.4	5.4	1.0	1.2	.4	.5	.1	.1	.0	.0	.0	.0	6.5 8.1 9.5
SSE	.2	.3	1.8	2.2	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	2.6 3.2 9.1
S	.5	.6	2.4	2.9	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	3.4 4.1 8.2
SSW	.2	.2	1.8	2.2	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	2.8 3.5 10.4
SW	.4	.5	3.1	3.9	1.0	1.2	.6	.7	.3	.3	.1	.1	.0	.0	5.4 6.7 10.8
WSW	.2	.3	2.2	2.7	.5	.7	.3	.3	.1	.1	.0	.0	.0	.0	3.3 4.1 10.2
W	.5	.6	3.5	4.3	.7	.8	.2	.3	.1	.1	.0	.0	.0	.0	5.1 6.2 9.1
WNW	.3	.4	6.2	7.6	2.8	3.5	1.9	2.4	.9	1.1	.1	.2	.0	.0	12.2 15.1 12.3
NW	.4	.5	5.4	6.7	3.2	3.9	2.3	2.9	1.2	1.5	.2	.2	.0	.0	12.7 15.6 12.9
NNW	.1	.1	1.5	1.9	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	2.6 3.3 11.1
CALM	1.7	2.1													1.7 2.1
TOTAL	7.5	9.2	48.0	59.2	14.1	17.4	7.8	9.6	3.3	4.0	.5	.6	.0	.1	81.1 100 10.2

SSM SAULT STE MARIE, MI

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: 55M SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 1 / NIGHT

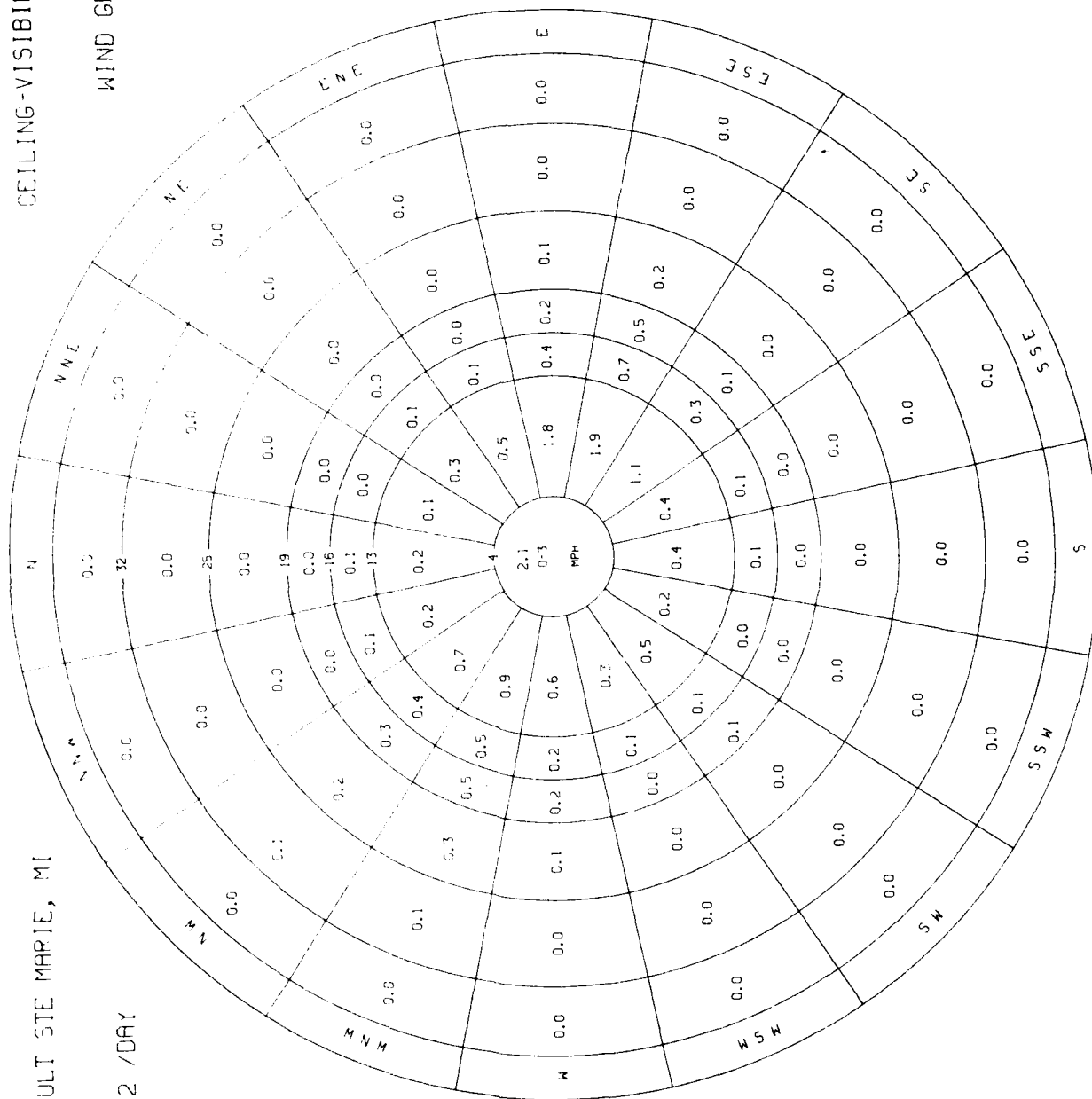
STATION NUMBER: 14947

NO. OBS.: 33412

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	3.0	3.9	.7	.8	.2	.3	.0	.0	.0	.0	.0	.0	4.5	5.7	9.0
NNE	.2	.2	1.8	2.3	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.4	3.0	8.6
NE	.7	.9	2.7	3.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.8	4.8	7.3
ENE	.7	.8	4.2	5.3	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	5.2	6.6	7.2
E	1.5	1.9	8.7	11.0	.5	.7	.2	.3	.1	.1	.0	.0	.0	.0	11.0	14.0	7.2
ESE	.6	.8	4.7	6.0	.7	.9	.3	.4	.1	.1	.0	.0	.0	.0	6.4	8.1	8.5
SE	.8	1.0	2.9	3.7	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	4.1	5.2	7.4
SSE	.3	.4	1.1	1.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.0	7.0
S	.7	.8	1.8	2.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	2.6	3.4	6.3
SSW	.3	.4	1.0	1.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.5	1.9	7.1
SW	.8	1.0	2.9	3.7	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	4.2	5.4	7.9
WSW	.4	.5	2.6	3.3	.6	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.0	5.1	9.4
W	1.0	1.3	3.9	5.0	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	5.8	7.4	8.1
WNNW	.6	.7	5.4	6.8	.9	1.1	.5	.7	.4	.5	.1	.1	.0	.0	7.8	9.9	9.6
NW	.7	.9	4.6	5.8	.9	1.2	.6	.8	.3	.3	.1	.1	.0	.0	7.2	9.1	9.8
NNW	.2	.2	1.8	2.3	.6	.7	.2	.3	.1	.1	.0	.0	.0	.0	2.9	3.6	10.2
CALM	3.9	4.9													3.9	4.9	
TOTAL	3.8	17.4	53.2	67.5	6.9	8.8	3.4	4.3	1.3	1.7	.2	.3	.1	.1	78.8	100	7.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: 35M SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14247

NO. OBS.: 9103

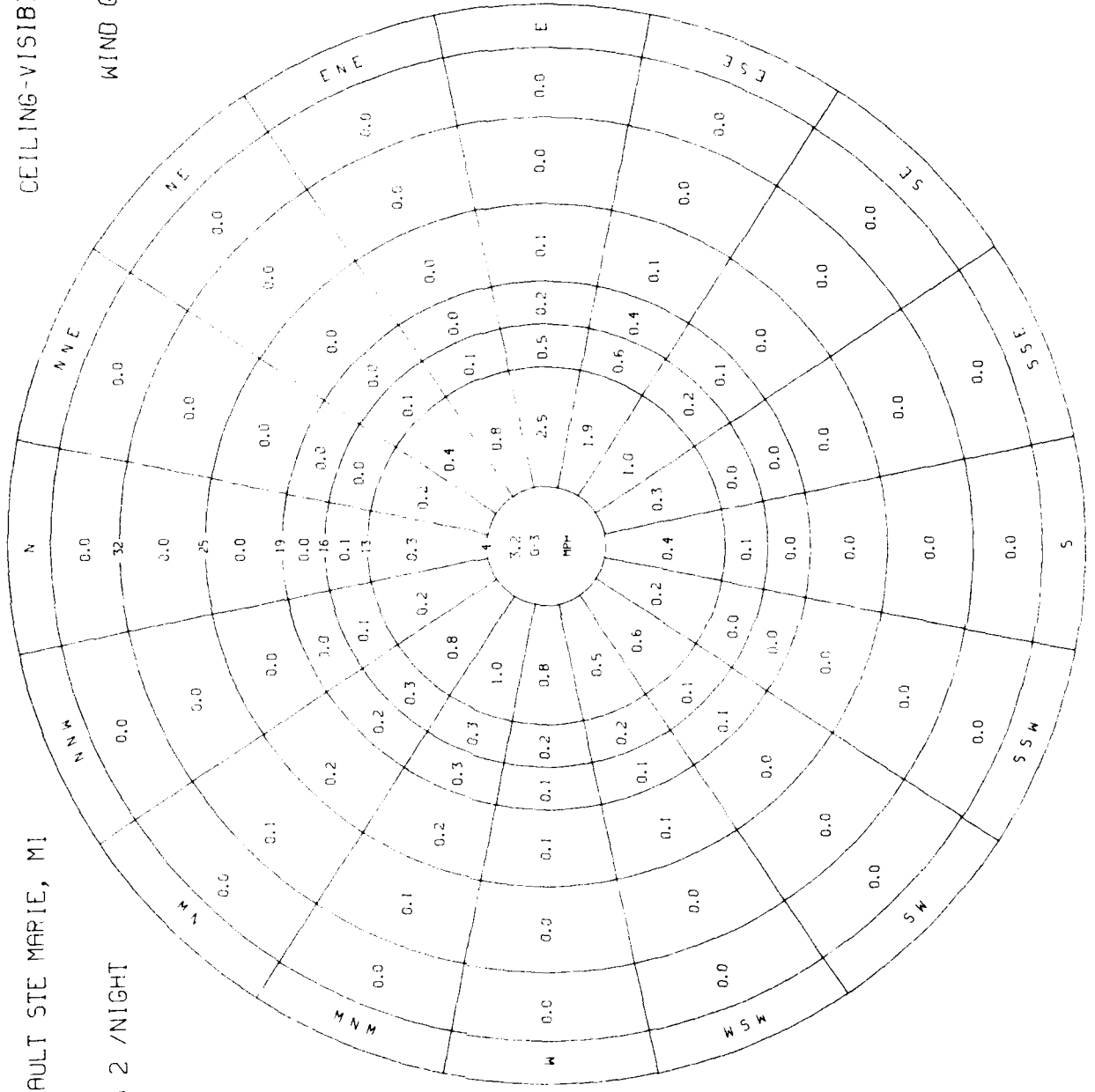
D I P	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.2	.2	1.1	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4	1.9	10.1
NNE	.0	.2	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2	1.1	9.2
NE	.1	.6	.3	1.5	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.5	2.6	8.2
ENE	.1	.6	.5	2.5	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.7	3.9	8.5
E	.4	1.9	1.8	9.7	.4	2.0	.2	1.1	.1	.5	.0	.0	.0	.0	2.9	15.1	9.2
ESE	.2	.9	1.9	10.3	.7	3.4	.5	2.4	.2	.8	.0	.1	.0	.0	3.4	18.0	11.1
SE	.2	.8	1.1	6.1	.3	1.4	.1	.6	.0	.3	.0	.0	.0	.0	1.7	9.3	9.7
SSE	.1	.4	.4	2.0	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.6	3.0	8.9
S	.1	.4	.4	2.2	.1	.4	.0	.1	.0	.1	.0	.0	.0	.0	.6	3.2	8.5
SSW	.0	.3	.2	1.2	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.0	9.4
SW	.1	.5	.5	2.5	.1	.4	.1	.3	.0	.1	.0	.0	.0	.0	.7	3.9	9.3
WSW	.0	.2	.3	1.8	.1	.6	.0	.2	.0	.1	.0	.1	.0	.0	.6	3.0	10.6
W	.1	.6	.6	3.3	.2	1.0	.2	.9	.1	.5	.0	.1	.0	.0	1.2	6.3	11.5
WNW	.1	.3	.9	4.9	.5	2.8	.5	2.5	.3	1.6	.1	.7	.0	.1	2.4	12.9	14.2
NW	.1	.4	.7	3.7	.4	2.0	.3	1.4	.2	1.3	.1	.4	.0	.0	1.7	9.2	13.5
NNW	.0	.2	.2	.9	.1	.4	.0	.3	.0	.2	.0	.0	.0	.0	.3	1.8	11.7
CALM	.5	2.9													.5	2.9	
TOTAL	2.1	11.3	10.2	54.2	3.1	16.3	2.0	10.8	1.1	5.8	.3	1.5	.0	.2	18.9	100	10.6

CEILING-VISIBILITY

WIND GRAPH

SSM SAULT STE MARIE, MI

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: 33M 1800' STE MARIE, MI

CLASS: ANNUAL

NO. OBS.: 8970

STATION NUMBER: 14647

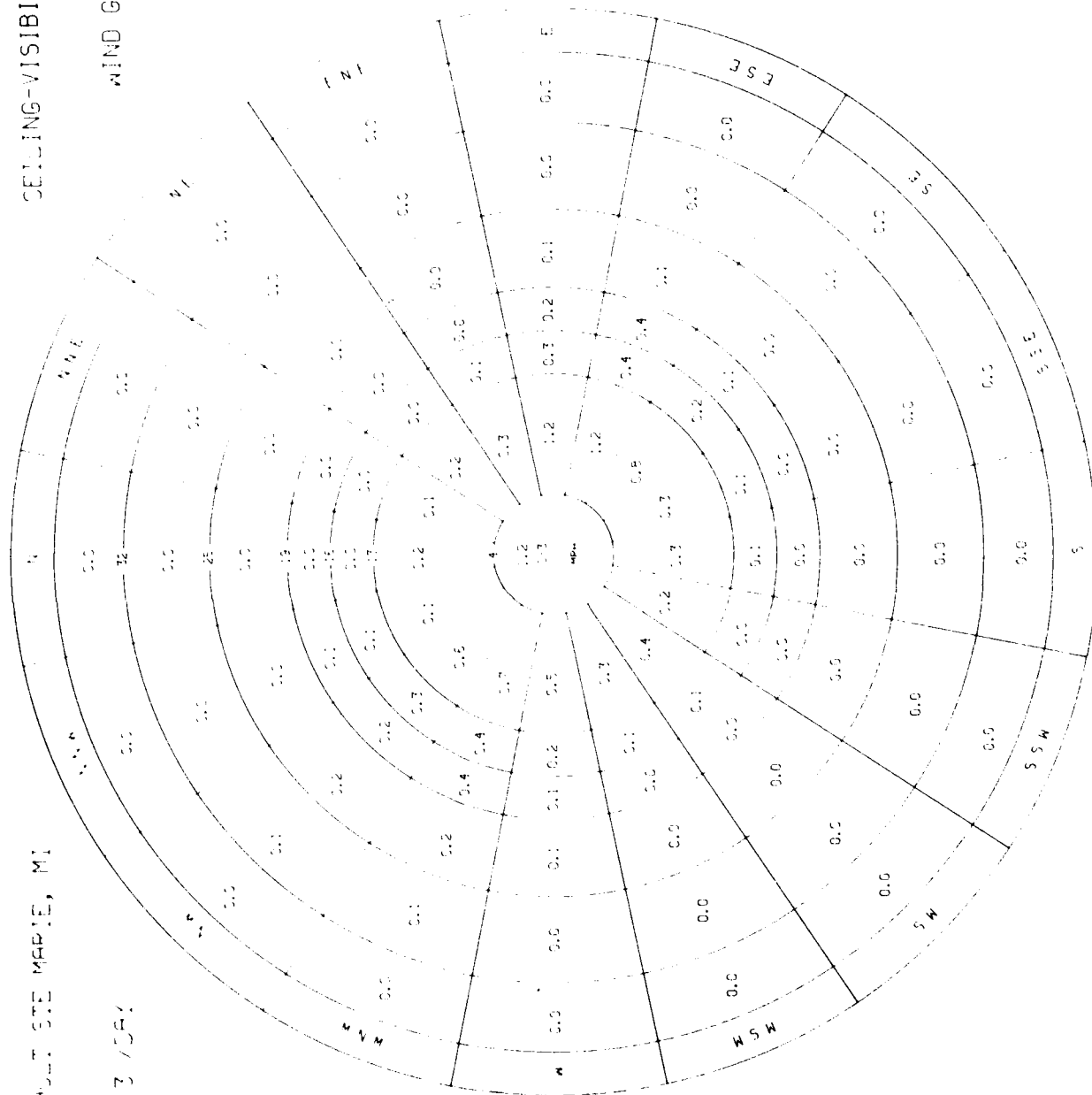
D I R	SPEED (KNOTS (MPH))																					AVG WIND SPEED			
	0-3			4-12			13-15			16-18			19-24			25-31			32+				TOTAL		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C		D		
N	.1	.5		.3	1.5		.1	.3		.2	.2		.0	.1		.0	.0		.0	.0	.6	2.7	8.8		
NNE	.0	.2		.2	1.0		.0	.2		.1	.1		.0	.0		.0	.0		.0	.0	.3	1.5	8.6		
NNE	.2	.9		.4	2.1		.1	.3		.0	.1		.0	.1		.0	.0		.0	.0	.7	3.5	7.3		
ENE	.1	.6		.3	3.7		.1	.4		.0	.2		.0	.1		.0	.0		.0	.0	1.0	4.9	7.6		
E	.4	2.1		2.5	1.8		.5	2.3		.2	.2		.1	.4		.0	.1		.0	.0	3.8	17.7	8.9		
ESE	.2	.8		1.9	3.1		.6	2.9		.4	.3		.1	.6		.0	.1		.0	.0	3.2	15.3	10.7		
SE	.2	1.0		1.0	4.6		.2	1.0		.1	.4		.0	.2		.0	.0		.0	.0	1.5	7.3	9.2		
SSE	.1	.4		.3	1.6		.0	.2		.0	.2		.0	.0		.0	.0		.0	.0	.5	2.4	8.7		
S	.2	.7		.4	1.9		.1	.3		.0	.1		.0	.1		.0	.0		.0	.0	.7	3.2	8.1		
SSW	.1	.2		.2	1.2		.0	.2		.0	.1		.0	.1		.0	.0		.0	.0	.4	1.7	8.3		
SW	.1	.7		.6	2.7		.1	.5		.1	.3		.0	.1		.0	.0		.0	.0	.9	4.3	9.0		
WSW	.1	.3		.5	2.5		.2	.7		.1	.4		.1	.3		.0	.1		.0	.0	.9	4.3	10.8		
W	.2	1.0		.8	3.9		.2	.9		.1	.6		.1	.5		.0	.2		.0	.1	1.5	7.0	10.5		
WNW	.1	.4		1.0	4.8		.3	1.6		.3	1.5		.2	1.1		.1	.5		.0	.2	2.1	10.1	13.2		
NW	.1	.7		.8	3.6		.3	1.4		.2	1.0		.2	.9		.1	.3		.0	.1	1.7	7.9	12.5		
NNW	.0	.2		.2	.9		.1	.4		.0	.2		.0	.1		.0	.0		.0	.0	.4	1.7	10.4		
CALM	.9	4.4																			.9	4.4			
TOTAL	3.2	15.1		12.0	56.8		2.3	13.6		1.8	8.4		.9	4.4		.3	1.4		.1	.4	21.2	100	9.6		

CEILING-VISIBILITY

WIND GRAPH

SSM SAULT STE MARIE, MI

CLASS 3 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 14847

NO. OBS.: 6596

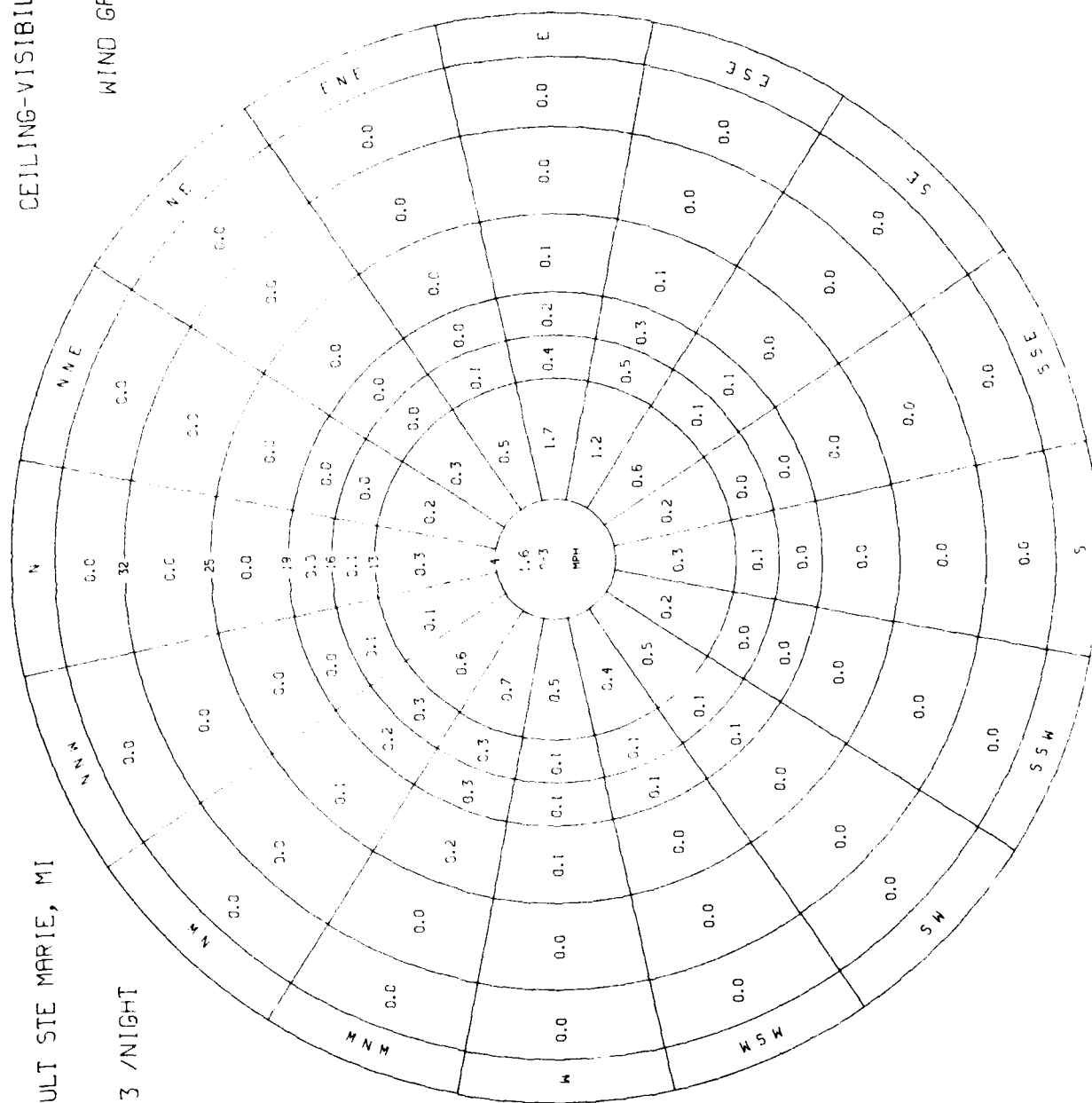
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.2	.2	1.3	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.3	2.1	10.0
NNE	.0	.1	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2	1.2	9.7
NE	.1	.5	.2	1.5	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.3	2.5	8.3
ENE	.1	.4	.3	2.3	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.5	9.0
E	.2	1.1	1.2	8.8	.3	2.1	.2	1.2	.1	.5	.0	.0	.0	.0	1.9	13.6	9.9
ESE	.1	.6	1.2	8.9	.4	3.2	.4	2.6	.1	.9	.0	.1	.0	.0	2.2	16.2	11.7
SE	.1	.7	.8	5.7	.2	1.4	.1	.7	.0	.3	.0	.0	.0	.0	1.2	8.9	10.0
SSE	.0	.3	.3	2.2	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.4	3.2	9.1
S	.1	.4	.3	2.4	.1	.5	.0	.1	.0	.1	.0	.0	.0	.0	.5	3.5	8.7
SSW	.0	.2	.2	1.4	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.3	2.2	9.9
SW	.1	.4	.4	3.0	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.5	9.6
WSW	.0	.2	.3	1.9	.1	.7	.0	.3	.0	.1	.0	.1	.0	.0	.5	3.3	10.9
W	.1	.6	.5	3.4	.2	1.1	.1	.9	.1	.4	.0	.1	.0	.0	.9	6.6	11.5
WNW	.0	.3	.7	5.0	.4	3.3	.4	2.9	.2	1.7	.1	.6	.0	.1	1.9	13.8	14.2
NW	.1	.4	.6	4.3	.3	2.5	.2	1.7	.2	1.3	.1	.4	.0	.0	1.5	10.7	13.5
NNW	.0	.2	.1	1.0	.1	.4	.0	.3	.0	.2	.0	.0	.0	.0	.3	2.0	11.4
CPI: 1	.3	2.0													.3	2.0	
TOTAL	1.2	8.8	7.4	53.8	2.4	17.8	1.7	12.1	.8	6.0	.2	1.3	.0	.2	13.7	100	11.0

CEILING-VISIBILITY

WIND GRAPH

SSM SAULT STE MARIE, MI

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 3 / NIGHT

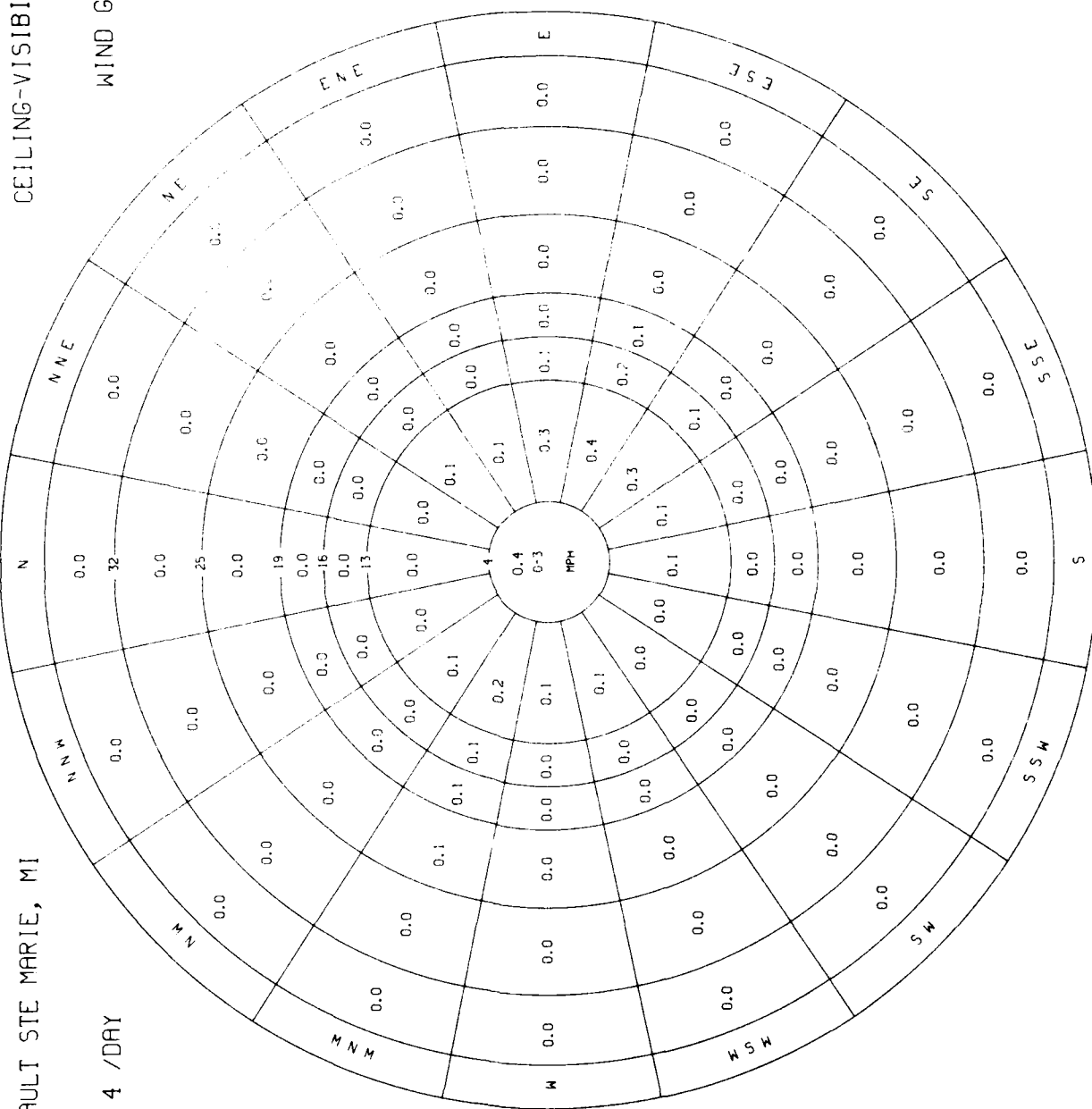
STATION NUMBER: 14847

NO. OBS.: 6075

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
N	.1	.4	.3	2.0	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.2	9.2
NNE	.0	.2	.2	1.2	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.3	1.8	8.7
NE	.1	.7	.3	2.3	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5	3.4	7.6
ENE	.1	.4	.5	3.4	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.6	4.4	8.3
E	.2	1.4	1.7	11.7	.4	2.5	.2	1.3	.1	.4	.0	.0	.0	.0	2.5	17.3	9.4
ESE	.1	.6	1.2	8.2	.5	3.2	.3	2.0	.1	.7	.0	.1	.0	.0	2.1	14.8	11.3
SE	.1	.9	.6	4.2	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	1.0	6.8	9.6
SSE	.0	.3	.2	1.7	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.4	2.5	9.0
S	.1	.5	.3	2.2	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.5	3.4	8.9
SSW	.0	.3	.2	1.3	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.3	2.0	8.6
SW	.1	.6	.5	3.2	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.7	5.0	9.4
WSW	.0	.3	.4	3.0	.1	.9	.1	.4	.0	.3	.0	.0	.0	.0	.7	4.9	10.8
W	.1	.7	.5	3.8	.1	.9	.1	.6	.1	.5	.0	.1	.0	.0	1.0	6.6	10.7
WNW	.0	.3	.7	4.6	.3	1.9	.3	1.8	.2	1.1	.0	.3	.0	.1	1.5	10.2	13.3
NW	.1	.6	.6	3.9	.3	1.7	.2	1.2	.1	.8	.0	.3	.0	.1	1.2	8.7	12.6
NNW	.0	.1	.1	1.0	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.3	1.8	10.6
CALM	.5	3.2													.5	3.2	
TOTAL	1.6	11.5	8.3	57.6	2.2	15.7	1.3	9.3	.7	4.7	.1	1.0	.0	.3	14.3	100	10.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 4 / DAY

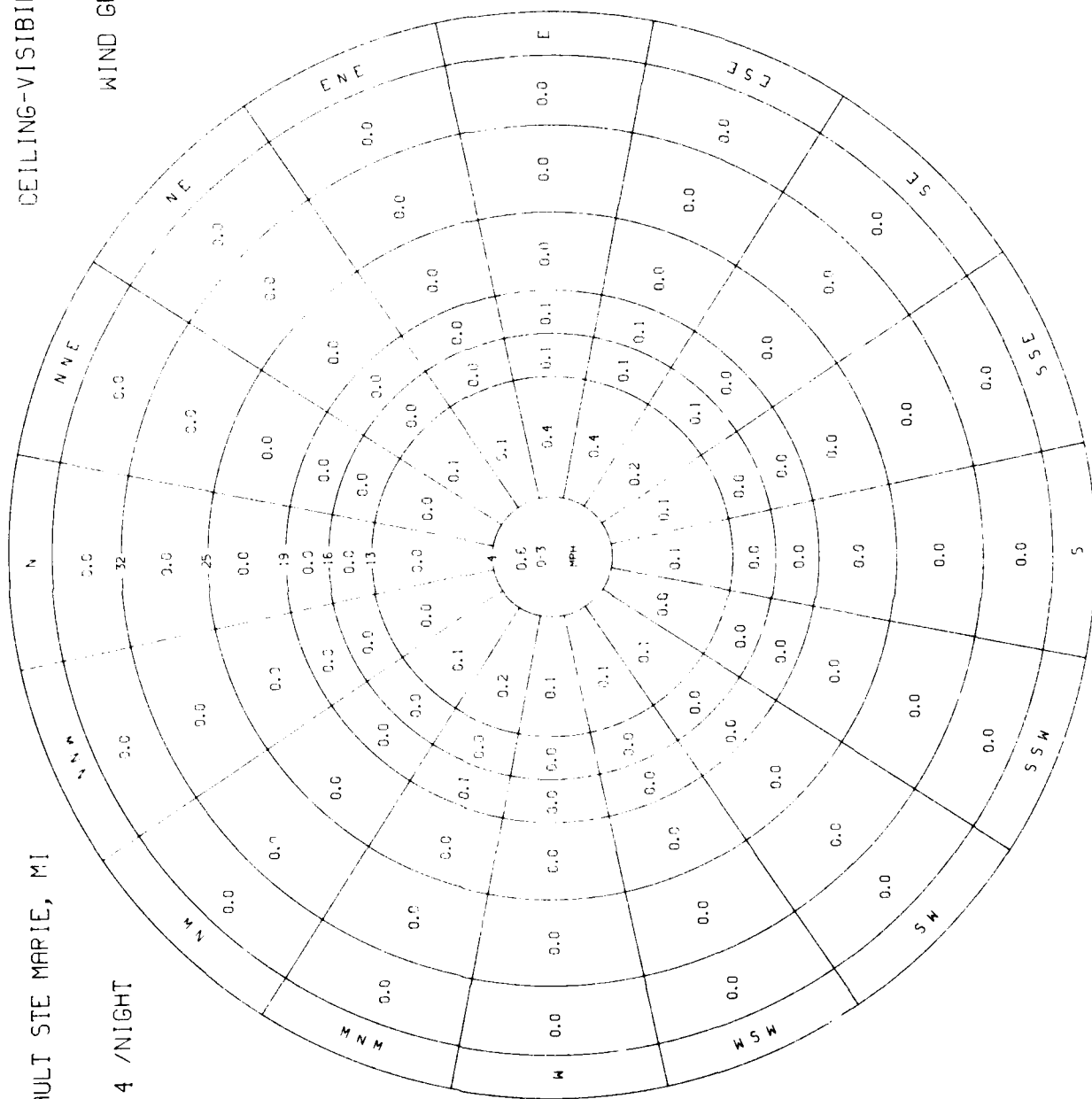
STATION NUMBER:14847

NO. OBS.: 1563

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.2	.0	1.1	.0	.2	.0	.3	.0	.1	.0	.0	.0	.0	.0	.1	1.9	10.5
NNE	.0	.1	.0	.6	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.0	8.4
NE	.0	.7	.1	1.6	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	2.9	7.9
ENE	.0	.6	.1	2.3	.0	.6	.0	.1	.0	.3	.0	.1	.0	.0	.0	.1	4.0	9.9
E	.1	2.2	.3	10.4	.1	2.0	.0	.8	.0	.5	.0	.1	.0	.0	.0	.5	16.1	8.9
ESE	.0	1.1	.4	12.9	.2	5.3	.1	2.3	.0	.8	.0	.1	.0	.0	.0	.7	22.5	10.9
SE	.0	.9	.3	7.9	.1	1.8	.0	.7	.0	.1	.0	.1	.0	.0	.0	.4	11.4	9.3
SSE	.0	.3	.1	1.7	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	2.8	9.4
S	.0	.3	.1	1.8	.0	.4	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	2.6	8.7
SSW	.0	.1	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	7.7
SW	.0	.4	.0	1.3	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	2.2	8.4
WSW	.0	.3	.1	1.7	.0	.2	.0	.1	.0	.3	.0	.1	.0	.0	.0	.1	2.7	9.6
W	.0	.4	.1	3.0	.0	1.0	.0	.8	.0	.5	.0	.1	.0	.0	.0	.2	5.8	12.0
WNW	.0	.2	.2	5.4	.1	2.0	.1	1.8	.1	1.6	.0	.9	.0	.1	.0	.4	12.0	14.0
NW	.0	.3	.1	2.9	.0	1.1	.0	.7	.0	1.1	.0	.3	.0	.0	.0	.2	6.3	13.4
NNW	.0	.0	.0	.6	.0	.2	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	1.4	13.6
CALM	.1	3.3														.1	3.3	
TOTAL	.4	11.6	1.8	56.0	.5	16.3	.3	8.6	.2	5.8	.1	1.7	.0	.1	.2	3.2	100	10.3

SSM SAULT STE MARIE, MI

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: 55M SAULT STE MARIE, MI

PERIOD: 1948-1978

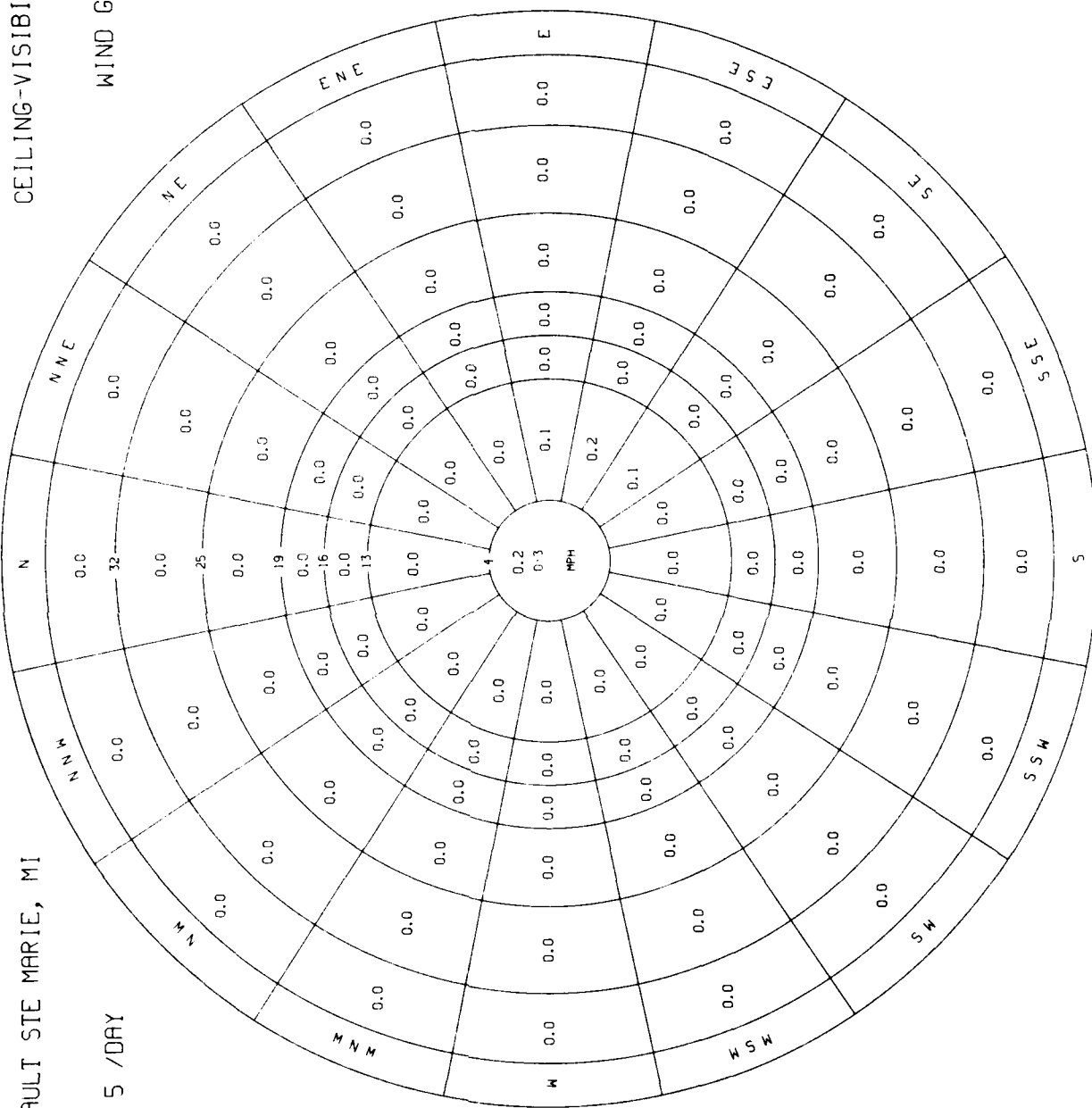
CLASS 4 / NIGHT

STATION NUMBER: 14847

NO. OBS.: 1576

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.6	.0	1.0	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.1	2.0	7.9
NNE	.0	.1	.0	.9	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	8.9
NE	.0	1.0	.1	1.9	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.0	.1	3.6	8.0
ENE	.0	1.1	.1	3.6	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.2	5.1	6.8
E	.1	1.9	.4	10.5	.1	2.8	.1	1.5	.0	.6	.0	.0	.0	.0	.0	.6	17.3	9.5
ESE	.0	1.1	.4	10.1	.1	3.1	.1	2.3	.0	.4	.0	.1	.0	.0	.0	.6	17.1	10.6
SE	.0	.8	.2	6.1	.1	1.5	.0	.4	.0	.2	.0	.1	.0	.0	.0	.3	9.0	9.3
SSE	.0	.3	.1	1.6	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	2.5	9.1
S	.0	1.1	.1	1.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	3.2	6.4
SSW	.0	.1	.0	.9	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	8.5
SW	.0	.6	.1	1.8	.0	.2	.0	.2	.0	.3	.0	.0	.0	.0	.0	.1	3.0	8.7
WSW	.0	.3	.1	1.5	.0	.4	.0	.7	.0	.4	.0	.1	.0	.0	.0	.1	3.4	12.5
W	.0	1.0	.1	3.7	.0	1.2	.0	.7	.0	.4	.0	.5	.0	.0	.0	.3	7.5	11.1
WNW	.0	.6	.2	5.3	.0	1.2	.1	1.7	.0	1.1	.0	1.1	.0	.3	.4	11.4	13.7	12.5
NW	.0	.8	.1	3.2	.0	.7	.0	.8	.0	1.1	.0	.4	.0	.1	.3	7.0	12.5	10.8
NNW	.0	.2	.0	.7	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	1.4	
CALM	.2	4.1														.2	4.1	
TOTAL	6.15	7.2	0.0	54.6	.5	12.7	.4	9.5	.2	4.7	.1	2.3	.0	.5	3.7	100		9.8

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 5 / DAY

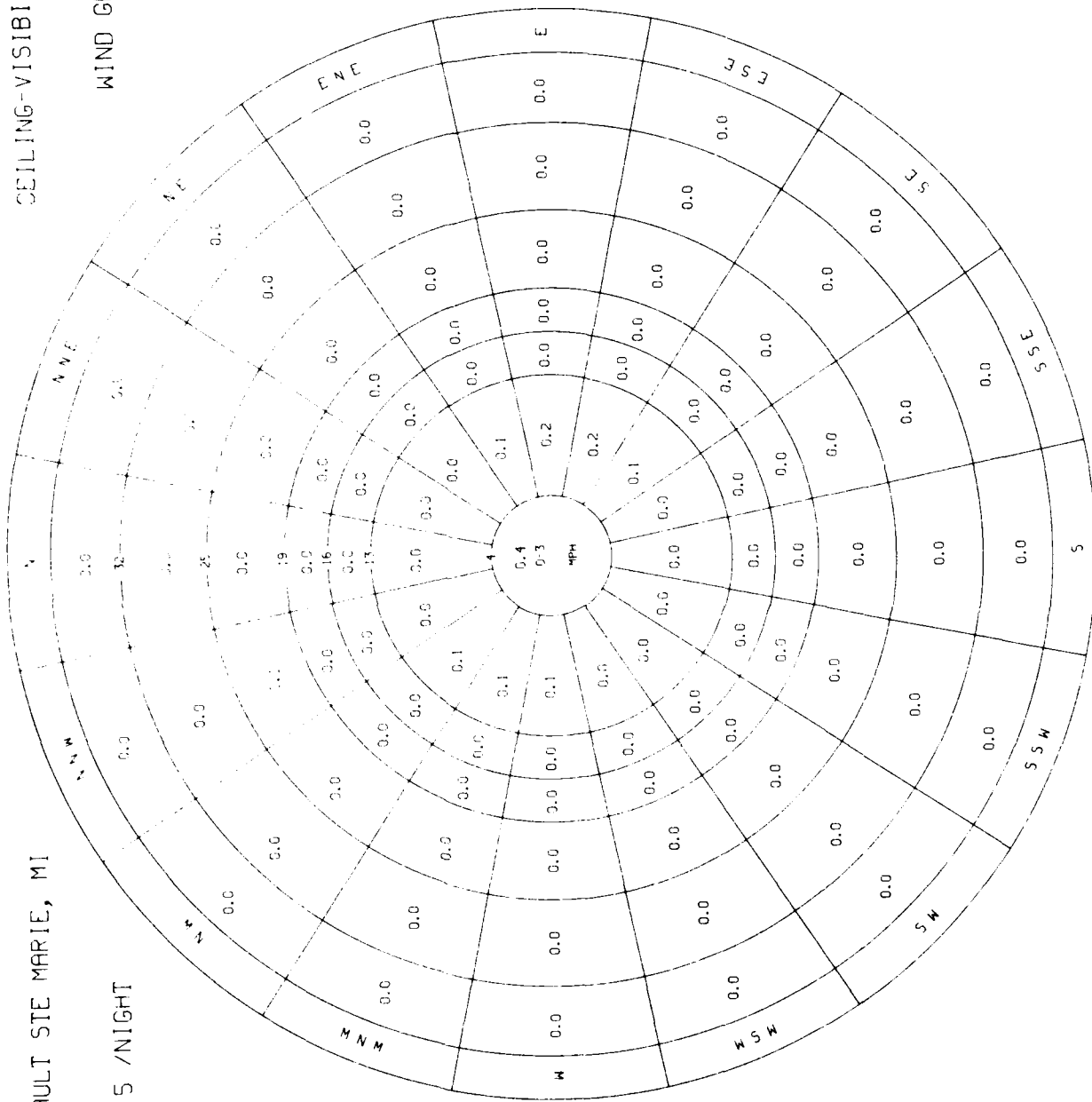
STATION NUMBER: 14847

NO. OBS.: 522

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	16.0
NNE	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0
NNE	.0	.2	.0	.8	.0	.2	.0	.4	.0	.0	.0	.2	.0	.0	.0	1.7	11.9
ENE	.0	1.0	.0	2.3	.0	.6	.0	.0	.0	.2	.0	.0	.0	.0	.0	4.0	7.0
E	.1	5.4	.1	11.9	.0	.8	.0	1.7	.0	.6	.0	.0	.0	.0	.2	20.3	7.4
ESE	.0	2.1	.2	17.8	.0	3.3	.0	1.9	.0	.8	.0	.0	.0	.0	.3	25.9	9.3
SE	.0	1.3	.1	6.7	.0	1.1	.0	.6	.0	.2	.0	.2	.0	.0	.1	10.2	9.3
SSE	.0	1.0	.0	1.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.1
S	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.7
SSW	.0	.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.0
SW	.0	1.0	.0	.4	.0	.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	2.1	9.1
WSW	.0	.2	.0	1.1	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	1.7	8.6
W	.0	.6	.0	3.1	.0	.0	.0	.4	.0	.8	.0	.2	.0	.0	.1	5.0	10.6
WNW	.0	1.0	.0	4.6	.0	.8	.0	1.1	.0	.6	.0	1.7	.0	.2	.1	10.0	13.6
NW	.0	.8	.0	1.5	.0	.0	.0	.6	.0	1.5	.0	.6	.0	.0	.1	5.0	14.3
NNW	.0	.0	.0	.4	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	1.3	13.0
CALM	.1	6.5													.1	6.5	
TOTAL	.2	22.2	.6	54.2	.1	7.7	.1	7.7	.1	5.2	.0	2.9	.0	.2	.1	100	8.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14847

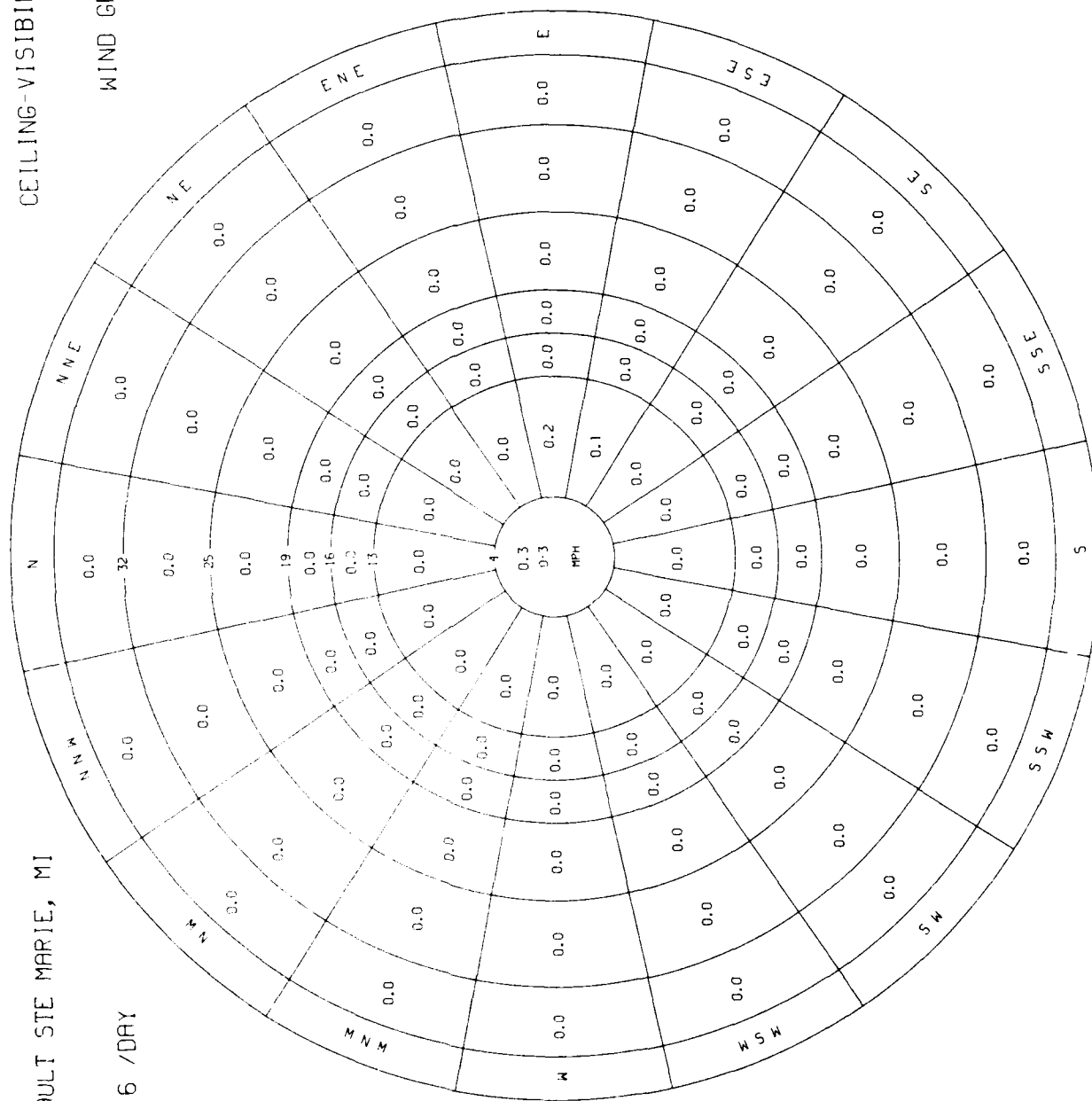
NO. OBS.: 696

D I R	SPEED GROUPS (MPH)													AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.6	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.1
NNE	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .3
NNE	.0	1.0	.0	1.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0 2.6
ENE	.0	.9	.1	4.7	.0	.1	.0	.4	.0	.4	.0	.0	.0	.0	.1 6.6
E	.1	4.3	.2	11.6	.0	.7	.0	.1	.0	.1	.0	.0	.0	.0	.3 17.0
ESE	.0	1.4	.2	12.9	.0	1.9	.0	1.3	.0	.1	.0	.0	.0	.0	.3 17.7
SE	.0	1.3	.1	5.3	.0	.6	.0	.6	.0	.1	.0	.0	.0	.0	.1 7.9
SSE	.0	.6	.0	1.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0 2.2
S	.0	.7	.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0 1.4
SSW	.0	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3
SW	.0	.6	.0	1.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.6
WSW	.0	.6	.0	2.0	.0	.0	.0	.1	.0	.1	.0	.3	.0	.0	.1 3.2
W	.0	1.3	.1	4.9	.0	.6	.0	.4	.0	.4	.0	.1	.0	.0	.1 7.8
WNW	.0	.6	.1	6.0	.0	1.0	.0	.6	.0	1.0	.0	.9	.0	.3	.2 10.3
NW	.0	.4	.1	3.2	.0	.7	.0	.4	.0	.9	.0	.4	.0	.1	.1 6.2
NNW	.0	.1	.0	1.3	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.0 1.9
CALM	.2	10.1													.2 10.1
TOTAL	.4	25.0	1.0	58.2	.1	6.5	.1	4.3	.1	3.6	.0	1.9	.0	.6	1.6 100
															7.8

WIND GRAPH

SSM SAULT STE MARIE, MI

CLASS 6 / DAY



ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14847

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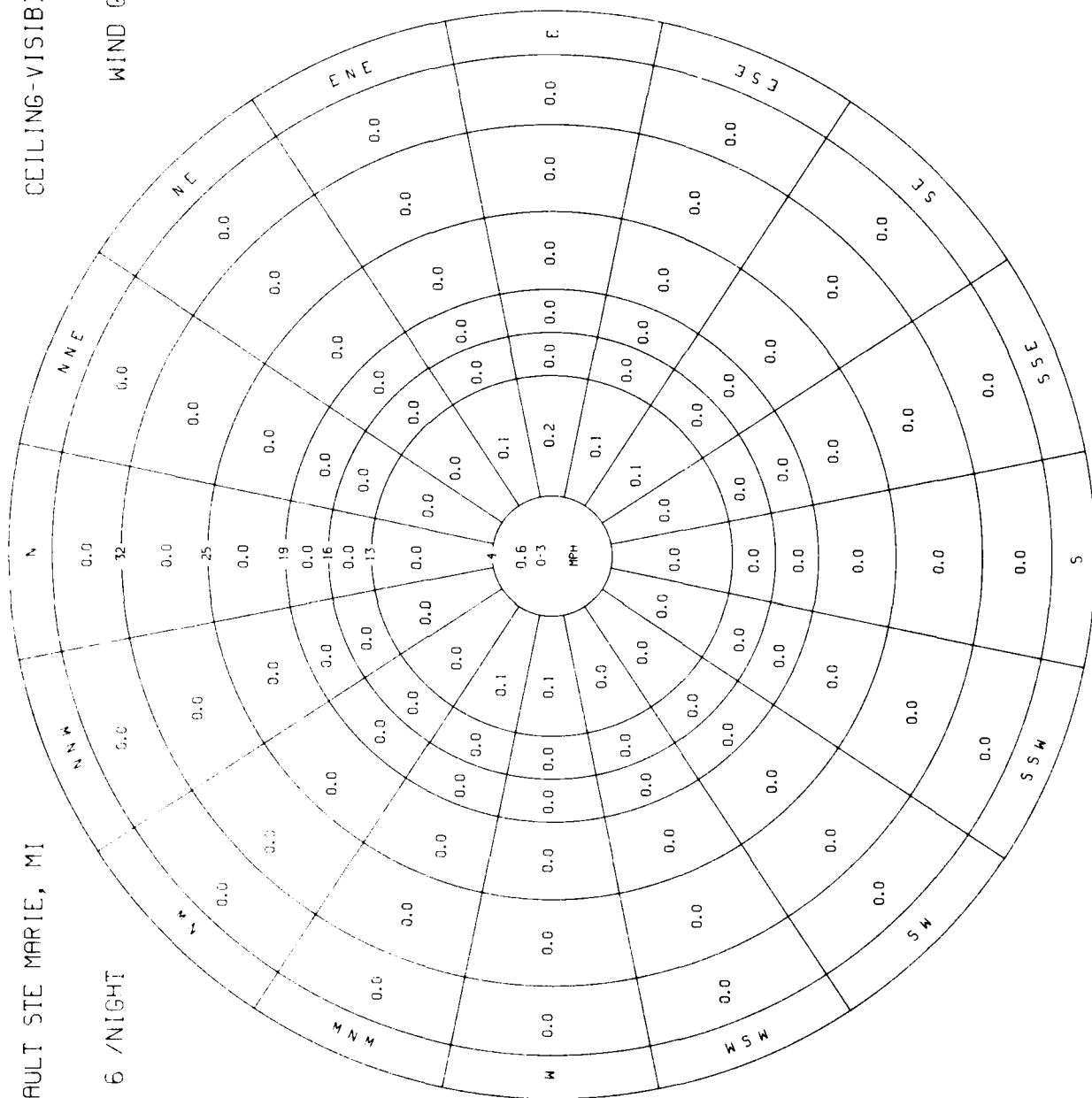
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.7	10.0
NNE	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	5.7
NE	.0	1.9	.0	1.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	3.6	5.5
ENE	.0	2.8	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.5	4.9
E	.1	7.8	.2	20.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.3	28.7	6.0
ESE	.0	2.8	.1	13.3	.0	1.4	.0	.9	.0	.0	.0	.0	.0	.0	.2	18.5	7.6
SE	.0	1.9	.0	4.0	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.6	6.9
SSE	.0	1.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.3
S	.0	.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.6
SSW	.0	.7	.0	.7	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	1.9	7.9
SW	.0	1.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	5.3
WSW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	7.3
W	.0	.9	.0	2.1	.0	.2	.0	.5	.0	.5	.0	.7	.0	.0	.0	5.0	12.0
WNW	.0	.0	.0	1.7	.0	.5	.0	.2	.0	1.4	.0	1.7	.0	.5	.1	5.9	19.5
NW	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.5
NNW	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	5.0
CALM	.1	11.4													.1	11.4	
TOTAL	3	35.1	5	54.0	0	3.3	0	2.1	0	2.4	0	2.6	0	.5	.9	100	6.7

CEILING-VISIBILITY

WIND GRAPH

SSM SAULT STE MARIE, MI

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: SSM SAULT STE MARIE, MI

CLASS 6 / NIGHT

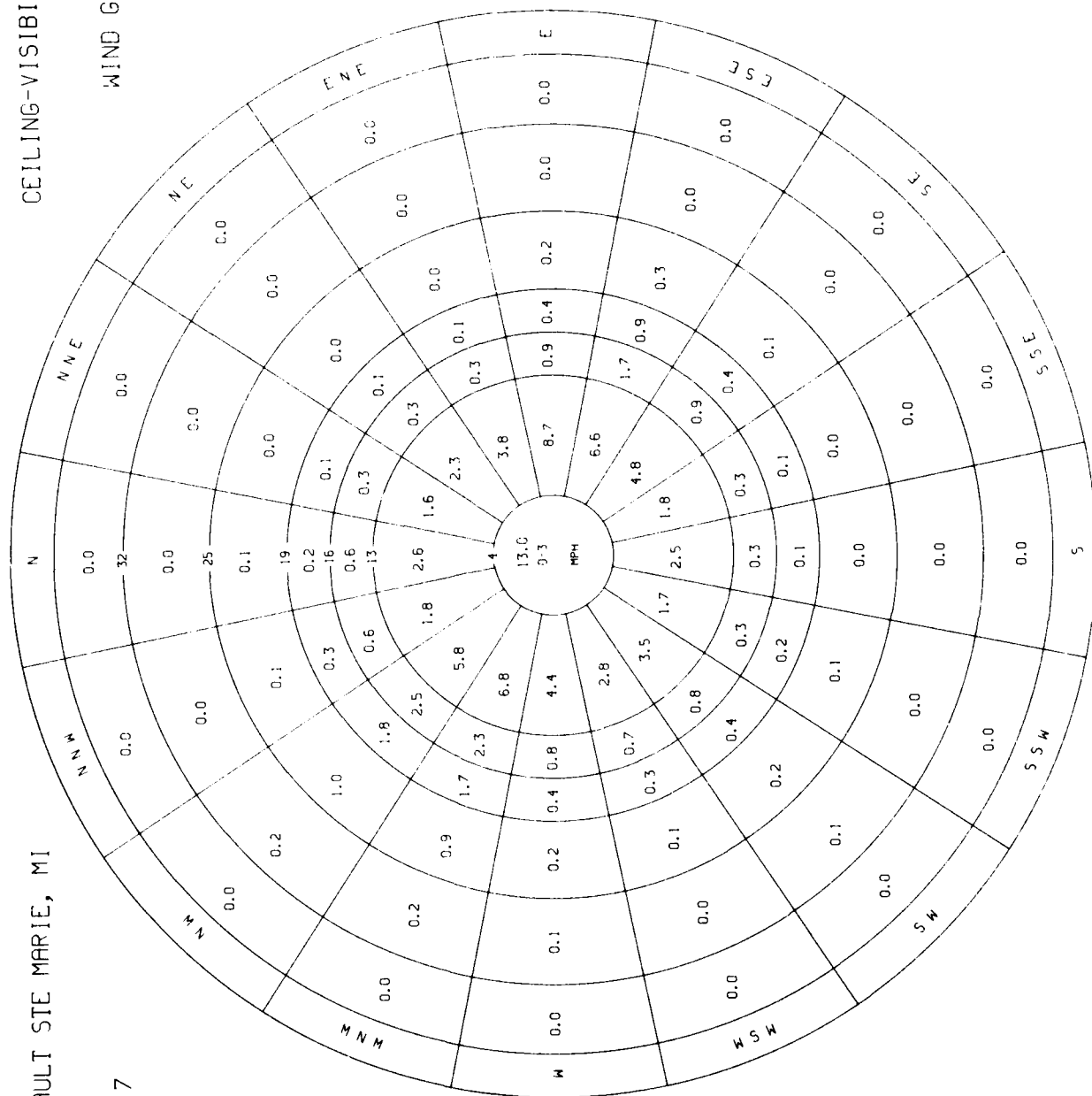
NO. OBS.: 623

STATION NUMBER: 14847

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
NNE	.0	.5	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.8
NE	.0	2.7	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
ENE	.0	1.8	.1	5.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	7.4
E	.1	6.6	.2	16.1	.0	1.0	.0	.0	.0	.2	.0	.3	.0	.0	24.1
ESE	.0	1.8	.1	10.1	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	13.2
SE	.0	1.8	.1	4.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	6.4
SSE	.0	.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
S	.0	2.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0
SSW	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
SW	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	3.0
WSW	.0	.5	.0	.8	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	1.8
W	.0	3.4	.1	3.5	.0	.2	.0	.3	.0	.5	.0	.3	.0	.6	8.8
WNW	.0	.6	.1	4.0	.0	.5	.0	.0	.0	.5	.0	.3	.0	.2	6.1
NW	.0	1.4	.0	1.8	.0	.3	.0	.3	.0	.2	.0	.6	.0	.0	4.7
NNW	.0	.6	.0	.3	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	1.3
CALM	.2	11.1													11.1
TOTAL	.6	37.9	.8	53.1	.0	3.4	.0	1.6	.0	1.4	.0	1.8	.0	.8	100
															6.2

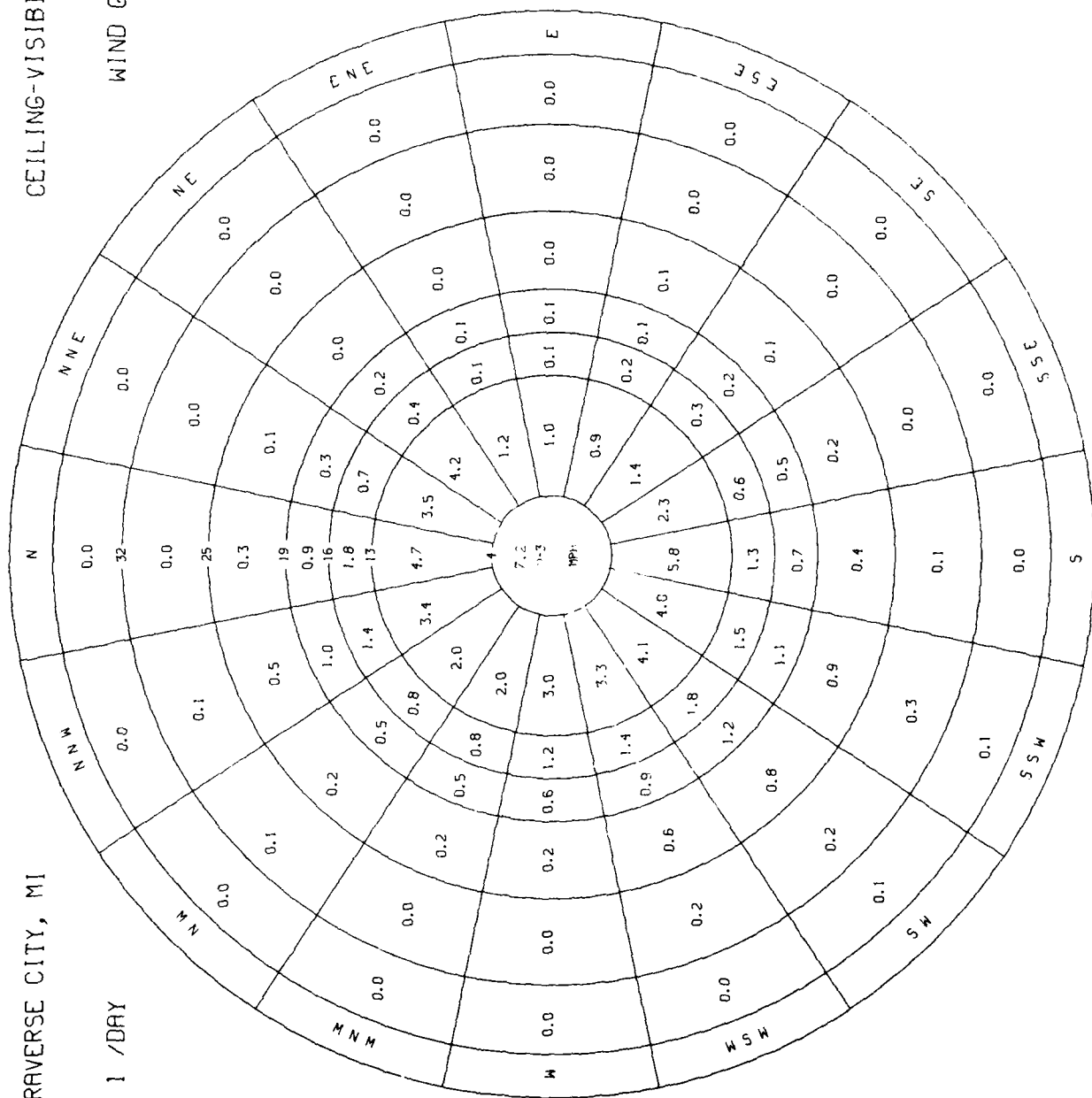
SSM SAULT STE MARIE, MI

CLASS 7



CEILING-VISIBILITY
WIND GRAPH

TVC TRAVERSE CITY, MI
CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 1 / DAY

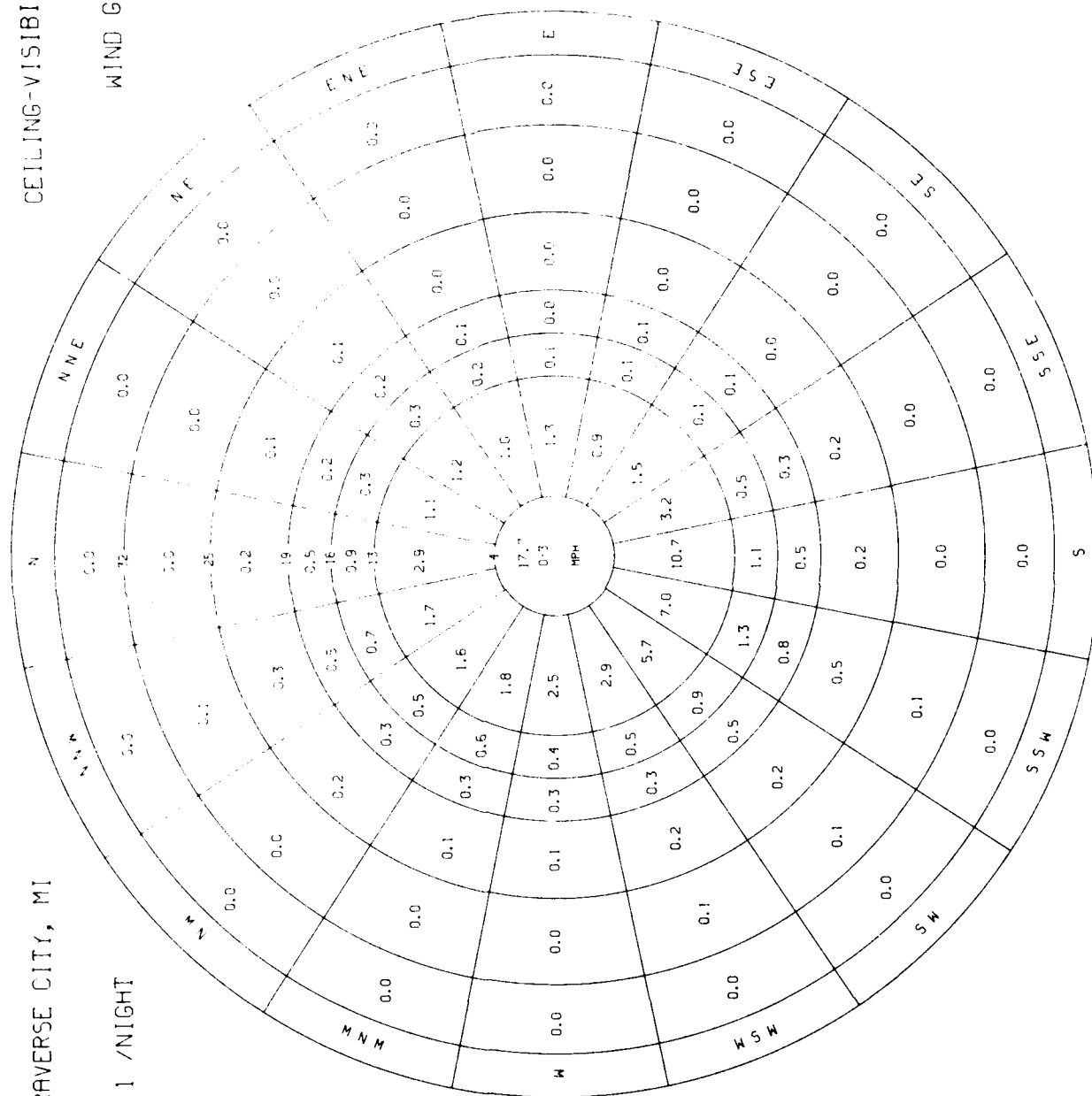
STATION NUMBER: 14850

NO. OBS.: 38873

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.2	.3	4.7	5.6	1.8	2.1	.9	1.1	.3	.4	.0	.0	.0	.0	8.0	9.5	11.5
NNE	.2	.2	3.5	4.1	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.7	5.7	10.0
NE	.4	.5	4.2	5.0	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	5.2	6.3	8.6
ENE	.1	.2	1.2	1.5	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.6	1.9	8.6
E	.1	.1	1.0	1.2	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.4	1.7	9.0
ESE	.1	.1	.9	1.0	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.3	1.6	9.9
SE	.2	.3	1.4	1.7	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.3	2.7	10.1
SSE	.2	.3	2.3	2.8	.6	.7	.5	.5	.2	.3	.0	.1	.0	.0	3.8	4.6	11.1
S	.5	.6	5.8	6.9	1.3	1.5	.7	.8	.4	.4	.1	.1	.0	.0	8.7	10.4	10.4
SSW	.3	.4	4.0	4.8	1.5	1.7	1.1	1.3	.9	1.1	.3	.3	.1	.1	8.2	9.8	12.9
SW	.3	.4	4.1	5.0	1.8	2.1	1.2	1.4	.8	1.0	.2	.3	.1	.1	8.5	10.2	13.0
WSW	.1	.2	3.3	4.0	1.4	1.7	.9	1.1	.6	.7	.2	.2	.0	.0	6.6	7.9	12.9
W	.2	.2	3.0	3.6	1.2	1.5	.6	.8	.2	.3	.0	.1	.0	.0	5.4	6.4	11.8
WNW	.1	.1	2.0	2.4	.8	1.0	.5	.6	.2	.3	.0	.1	.0	.0	3.7	4.4	12.1
NW	.3	.3	2.0	2.4	.8	.9	.5	.6	.2	.3	.1	.1	.0	.0	3.8	4.6	11.6
NNW	.2	.2	3.4	4.1	1.4	1.7	1.0	1.2	.5	.7	.1	.1	.0	.0	6.6	7.9	12.3
CALM	3.5	4.2													3.5	4.2	
TOTAL	7.2	8.6	46.9	56.2	14.4	17.3	8.8	10.5	4.8	5.8	1.1	1.3	.2	.3	83.4	100	11.0

TVC TRAVERSE CITY, MI

CLASS 1 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 14550

NO. OBS.: 33609

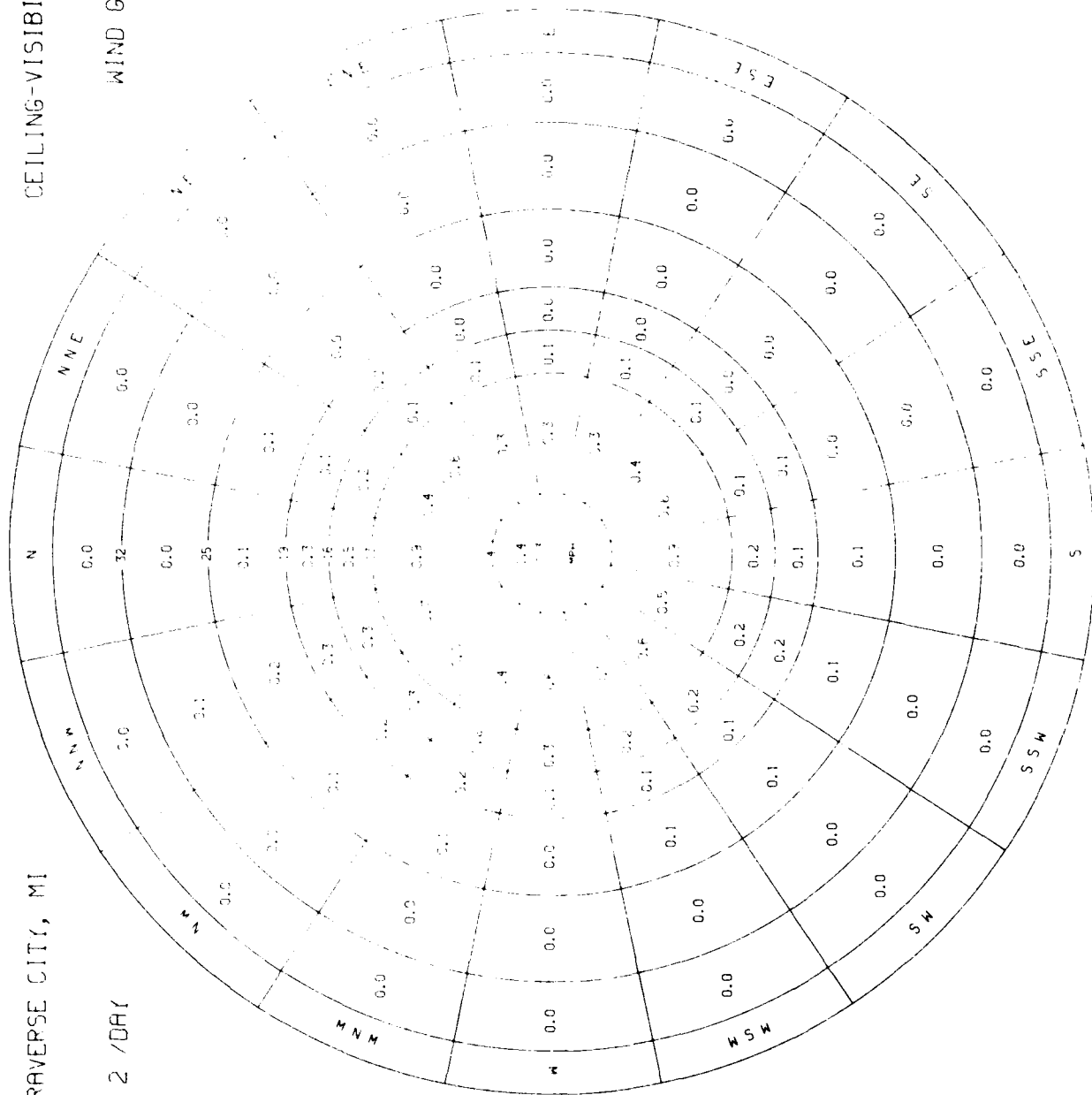
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.2	.2	2.9	3.5	.9	1.1	.5	.6	.2	.2	.0	.0	.0	.0	4.7 5.8
NNE	.1	.1	1.1	1.4	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	1.9 2.3
NE	.3	.3	1.2	1.5	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.0 2.4
ENE	.1	.2	1.0	1.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.5 1.8
E	.2	.3	1.3	1.6	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.7 2.1
ESE	.2	.2	.9	1.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.3 1.6
SE	.4	.5	1.5	1.9	.1	.2	.1	.1	.0	.1	.0	.0	.0	.0	2.2 2.7
SSE	.5	.6	3.2	3.9	.5	.6	.3	.4	.2	.2	.0	.1	.0	.0	4.7 5.8
S	1.6	1.9	10.7	13.0	1.1	1.4	.5	.7	.2	.2	.0	.1	.0	.0	14.2 17.3
SSW	1.1	1.4	7.0	8.6	1.3	1.5	.8	1.0	.5	.6	.1	.2	.0	.1	10.9 13.3
SW	.9	1.1	5.7	6.9	.9	1.1	.5	.6	.2	.3	.1	.1	.0	.1	8.3 10.1
WSW	.3	.4	2.9	3.6	.5	.6	.3	.4	.2	.2	.1	.1	.0	.0	4.3 5.2
W	.3	.4	2.5	3.0	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.6 4.4
WNW	.2	.2	1.8	2.2	.6	.7	.3	.4	.1	.2	.0	.0	.0	.0	3.1 3.8
NW	.3	.3	1.6	1.9	.5	.7	.3	.4	.2	.3	.0	.0	.0	.0	3.0 3.7
NNW	.2	.2	1.7	2.1	.7	.8	.5	.6	.3	.4	.1	.2	.0	.0	3.6 4.4
CALM	10.9	13.3													10.9 13.3
TOTAL	17.7	21.6	47.1	57.5	8.5	10.4	5.2	6.4	2.5	3.1	.6	.8	.2	.2	82.0 100
															8.3

CEILING-VISIBILITY

WIND GRAPH

TVC TRAVERSE CITY, MI

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 2 / DAY

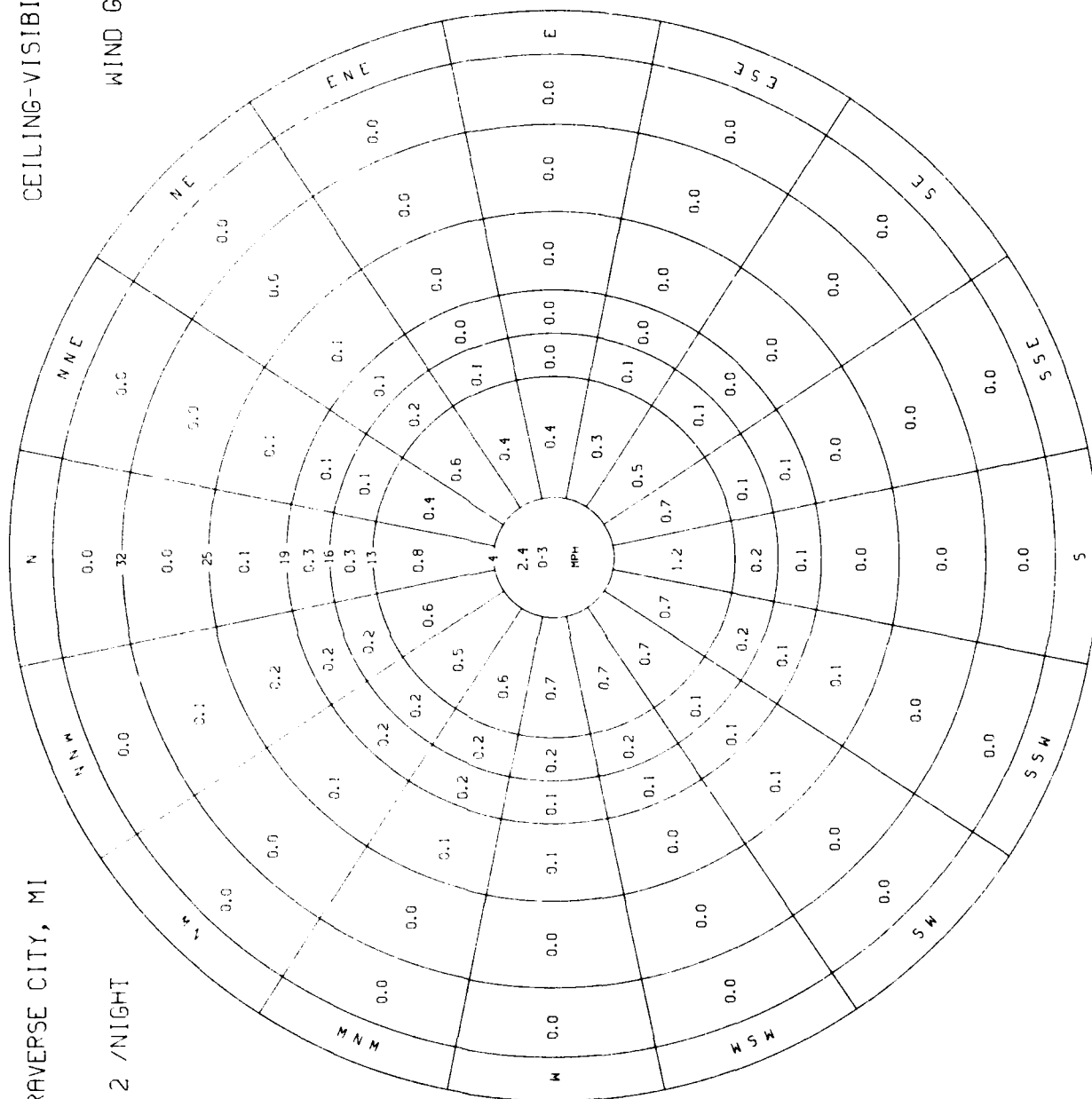
STATION NUMBER: 14850

NO. OBS.: 7764

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.5	.9	5.7	.5	2.8	.3	1.8	.1	.8	.0	.2	.0	.1	2.0	11.8	12.5
NNE	.0	.2	.4	2.6	.2	1.2	.1	.7	.1	.4	.0	.1	.0	.0	.9	5.2	12.0
NE	.1	.4	.6	3.5	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.9	5.2	9.8
ENE	.0	.2	.3	1.8	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.5	2.7	10.0
E	.1	.3	.3	2.0	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.5	2.9	9.0
ESE	.0	.1	.3	1.9	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.6	9.4
SE	.0	.2	.4	2.4	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6	3.4	9.7
SSE	.0	.3	.6	3.6	.1	.8	.1	.5	.0	.3	.0	.1	.0	.0	.9	5.6	10.8
S	.1	.4	.9	5.4	.2	1.0	.1	.4	.1	.3	.0	.0	.0	.0	1.3	7.6	10.1
SSW	.0	.3	.5	3.2	.2	1.2	.2	.9	.1	.5	.0	.2	.0	.0	1.1	6.3	12.5
SW	.0	.2	.6	3.7	.2	1.3	.1	.8	.1	.5	.0	.2	.0	.1	1.1	6.8	12.3
WSW	.0	.1	.5	3.1	.2	1.3	.1	.9	.1	.6	.0	.2	.0	.0	1.0	6.2	12.8
W	.0	.1	.6	3.6	.3	1.7	.1	.9	.0	.3	.0	.0	.0	.0	1.1	6.6	11.8
WNW	.0	.2	.4	2.6	.2	1.4	.2	.9	.1	.5	.0	.1	.0	.0	1.0	5.8	12.8
NW	.1	.3	.5	3.1	.3	1.8	.2	1.1	.1	.8	.0	.2	.0	.0	1.2	7.2	13.2
NNW	.0	.2	.7	4.1	.3	2.1	.3	1.5	.2	1.4	.1	.4	.0	.1	1.6	9.9	13.9
CALM	.7	4.5													.7	4.5	
TOTAL	1.4	8.6	8.7	52.6	3.1	18.6	1.9	11.3	1.1	6.8	.3	1.7	.1	.3	16.6	100	11.3

TVC TRAVERSE CITY, MI

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: IVC TRAVERSE CITY, MI

CLASS 2 / NIGHT

NO. OBS.: 7396

STATION NUMBER: 14850

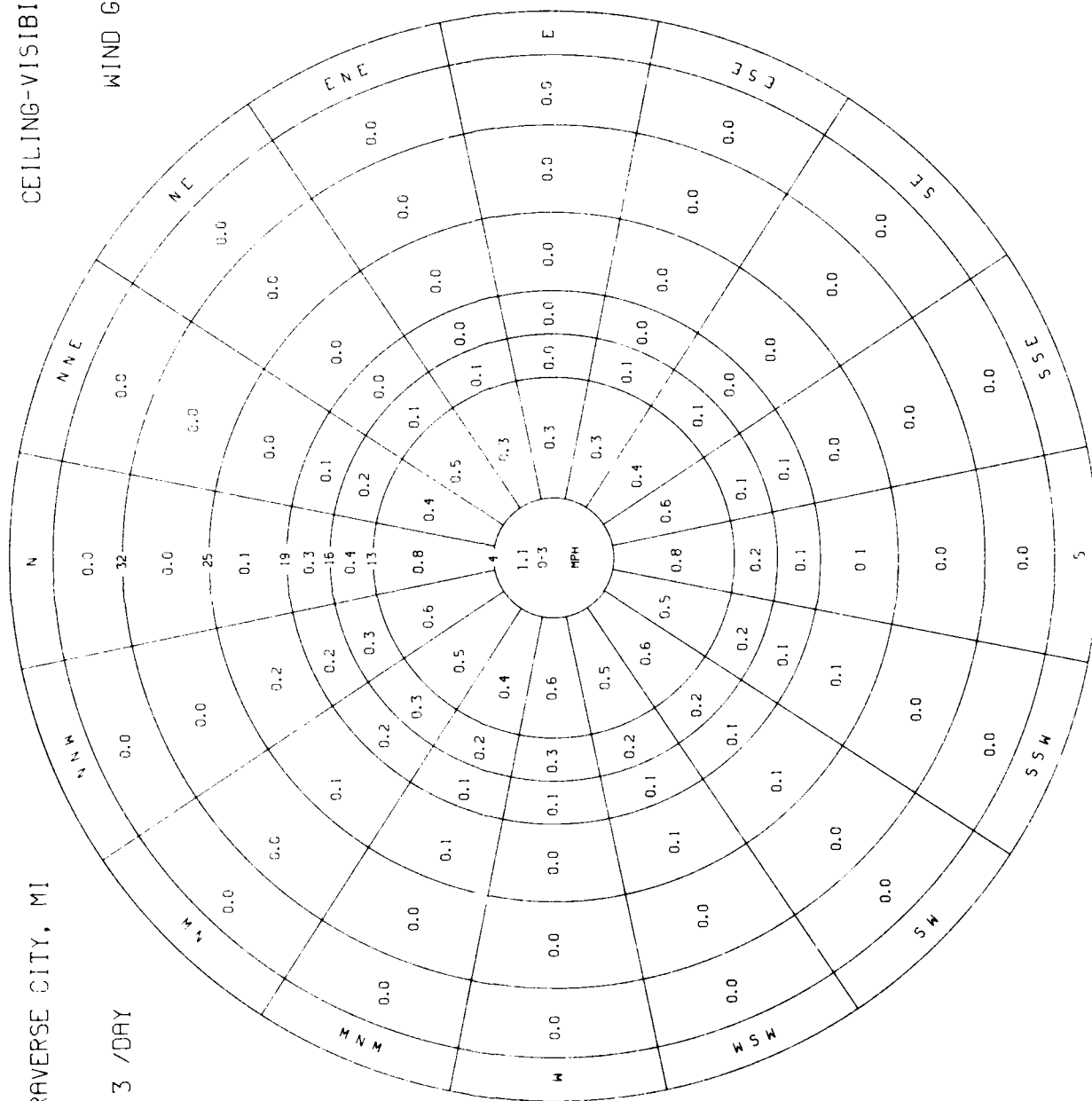
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.1	.3	.8	4.5	.3	1.9	.3	1.6	.1	.7	.0	.2	.0	.1	1.7	9.3	13.0
NNE	.0	.2	.4	2.3	.1	.8	.1	.7	.1	.4	.0	.1	.0	.0	.8	4.6	12.3
NE	.1	.5	.6	3.1	.2	.9	.1	.5	.1	.4	.0	.0	.0	.0	1.0	5.4	10.6
ENE	.0	.2	.4	2.5	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.6	3.5	9.3
E	.1	.6	.4	2.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.4	7.5
ESE	.0	.2	.3	1.8	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.4	9.1
SE	.1	.4	.5	2.7	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.7	3.8	9.1
SSE	.1	.6	.7	3.7	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	1.0	5.5	9.6
S	.1	.8	1.2	6.9	.2	1.0	.1	.4	.0	.1	.0	.0	.0	.0	1.7	9.2	9.0
SSW	.1	.4	.7	4.0	.2	1.0	.1	.7	.1	.3	.0	.1	.0	.0	1.2	6.6	11.0
SW	.1	.5	.7	4.0	.1	.7	.1	.7	.1	.4	.0	.1	.0	.1	1.2	6.5	11.0
WSW	.0	.2	.7	3.6	.2	.9	.1	.7	.0	.2	.0	.1	.0	.2	1.1	5.9	12.1
W	.0	.2	.7	3.8	.2	1.2	.1	.7	.1	.3	.0	.1	.0	.1	1.1	6.3	11.7
WNW	.0	.2	.6	3.3	.2	1.3	.2	1.2	.1	.4	.0	.1	.0	.0	1.2	6.4	12.5
NW	.1	.5	.5	2.9	.2	1.3	.2	1.0	.1	.5	.0	.2	.0	.0	1.2	6.5	12.8
NNW	.1	.4	.6	3.1	.2	1.3	.2	1.3	.2	1.1	.1	.4	.0	.1	1.4	7.7	13.9
CALM	1.3	7.0													1.3	7.0	
TOTAL	2.4	13.1	9.9	54.8	2.6	14.4	1.9	10.4	.9	5.1	.3	1.5	.1	.7	18.0	100	10.4

CEILING-VISIBILITY

WIND GRAPH

TVC TRAVERSE CITY, MI

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 3 / DAY

STATION NUMBER: 14850

NO. OBS.: 6921

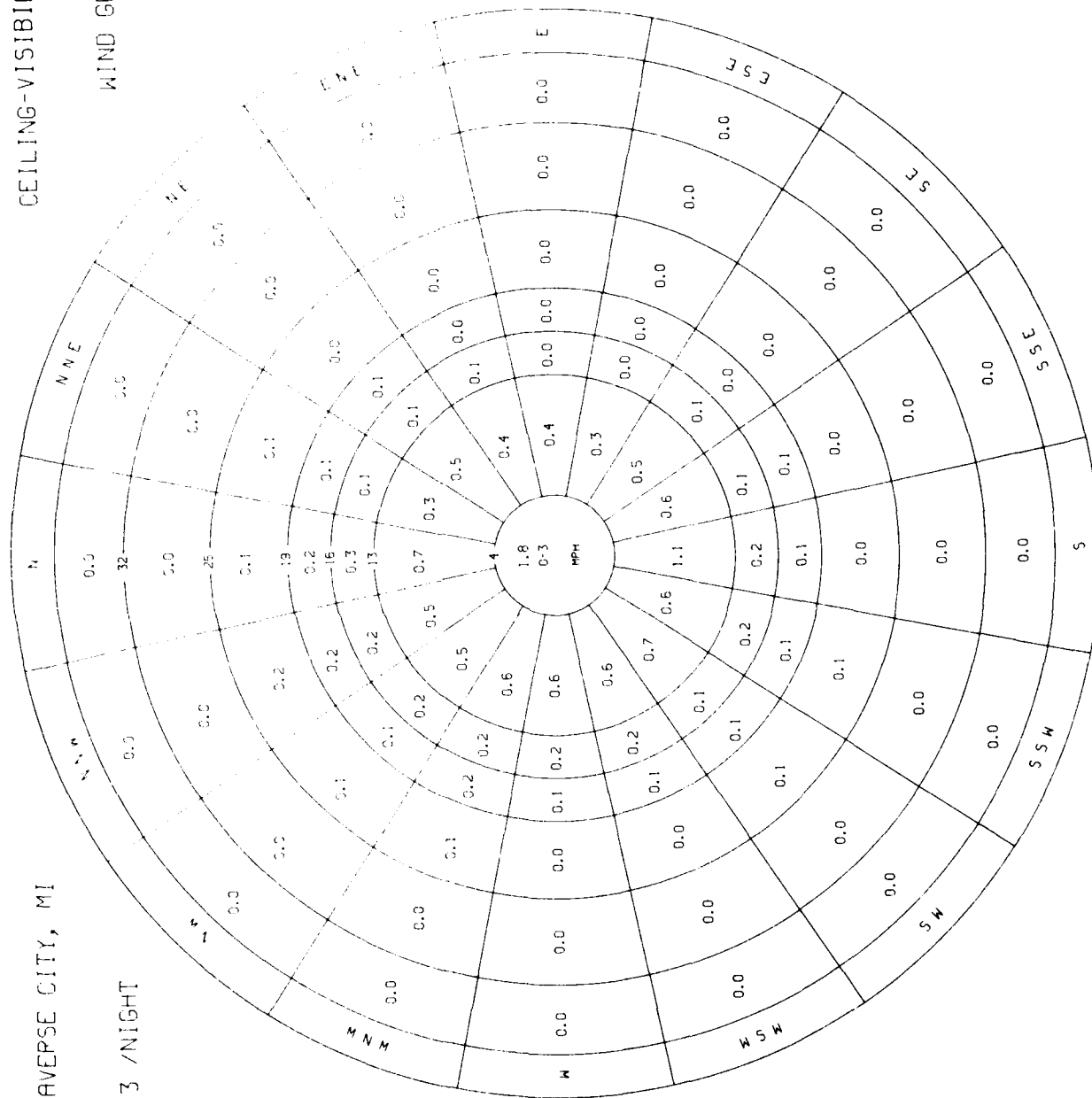
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.4	.8	5.7	.4	2.8	.3	1.7	.1	.7	.0	.1	.0	.0	1.7 11.5
NNE	.0	.2	.4	2.6	.2	1.2	.1	.7	.0	.3	.0	.1	.0	.0	.7 5.0
NE	.1	.4	.5	3.5	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.7 4.9
ENE	.0	.1	.3	1.8	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.4 2.6
E	.0	.3	.3	2.1	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4 2.9
ESE	.0	.1	.3	2.0	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4 2.7
SE	.0	.2	.4	2.6	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.5 3.6
SSE	.0	.3	.6	3.9	.1	.8	.1	.5	.0	.3	.0	.1	.0	.0	.9 5.9
S	.1	.3	.8	5.6	.2	1.0	.1	.4	.1	.4	.0	.0	.0	.0	1.2 7.9
SSW	.0	.2	.5	3.4	.2	1.3	.1	1.0	.1	.5	.0	.2	.0	.0	1.0 6.6
SW	.0	.2	.6	3.9	.2	1.4	.1	.8	.1	.5	.0	.1	.0	.0	1.0 7.0
WSW	.0	.1	.5	3.3	.2	1.4	.1	.9	.1	.5	.0	.2	.0	.0	1.0 6.4
W	.0	.1	.6	3.8	.3	1.8	.1	.9	.0	.3	.0	.0	.0	.0	1.0 6.9
WNW	.0	.2	.4	2.7	.2	1.4	.1	.9	.1	.4	.0	.1	.0	.0	.9 5.8
NW	.0	.3	.5	3.1	.3	1.8	.2	1.1	.1	.7	.0	.1	.0	.0	1.0 7.0
NNW	.0	.2	.6	4.0	.3	2.1	.2	1.5	.2	1.3	.0	.2	.0	.1	1.4 9.4
CALM	.6	3.9													.6 3.9
TOTAL	1.1	7.5	8.0	54.1	2.8	19.1	1.7	11.4	.9	6.4	.2	1.4	.1	.2	14.8 10.0
															11.3

CEILING-VISIBILITY

WIND GRAPH

TVC TRAVERSE CITY, MI

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 3 / NIGHT

STATION NUMBER: 14856

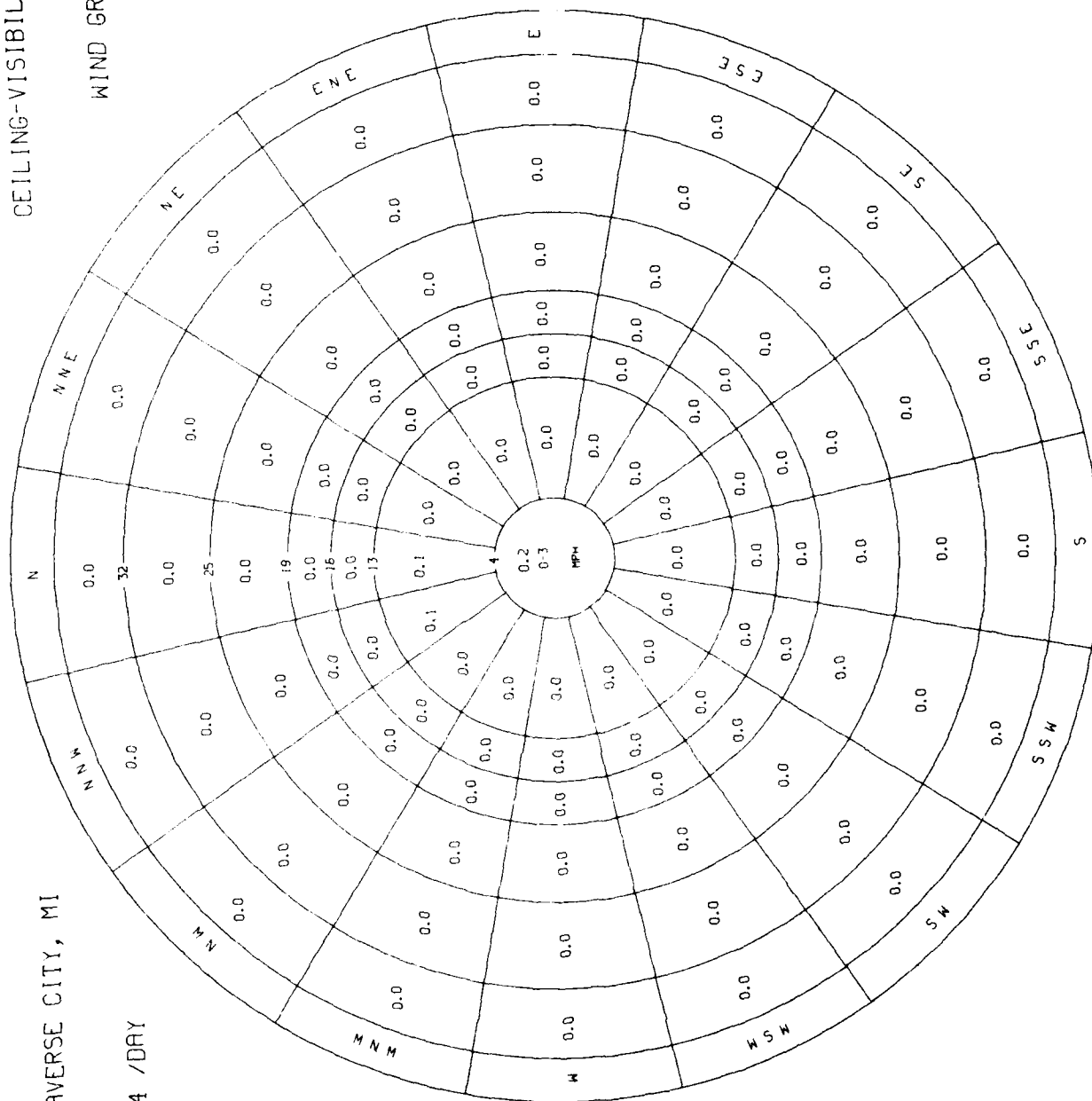
NO. OBS.: 6497

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.2	.7	4.4	.3	1.9	.2	1.6	.1	.6	.0	.1	.0	.1	1.4	8.9	12.8
NNE	.0	.2	.3	2.2	.1	.8	.1	.7	.1	.3	.0	.1	.0	.0	.7	4.3	12.3
NE	.1	.4	.5	3.2	.1	.9	.1	.5	.0	.3	.0	.0	.0	.0	.8	5.2	10.7
ENE	.0	.2	.4	2.5	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.5	3.4	9.2
E	.1	.5	.4	2.7	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.6	7.6
ESE	.0	.2	.3	2.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4	2.6	9.1
SE	.1	.4	.5	2.9	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.0	9.2
SSE	.1	.5	.6	4.0	.1	.8	.1	.4	.0	.1	.0	.0	.0	.0	.9	5.8	9.7
S	.1	.7	1.1	7.2	.2	1.1	.1	.4	.0	.1	.0	.0	.0	.0	1.5	9.6	9.1
SSW	.1	.4	.6	4.0	.2	1.1	.1	.8	.1	.3	.0	.1	.0	.0	1.1	6.9	11.3
SW	.1	.4	.7	4.4	.1	.7	.1	.7	.1	.4	.0	.1	.0	.1	1.1	6.8	10.9
WSW	.0	.2	.6	3.8	.2	1.0	.1	.7	.0	.2	.0	.1	.0	.1	1.0	6.0	11.8
W	.0	.2	.6	4.1	.2	1.3	.1	.7	.0	.3	.0	.1	.0	.0	1.0	6.6	11.6
WNW	.0	.2	.6	3.5	.2	1.4	.2	1.2	.1	.4	.0	.0	.0	.0	1.1	6.6	12.2
NW	.1	.4	.5	2.9	.2	1.4	.1	.9	.1	.5	.0	.2	.0	.0	1.0	6.3	12.7
NNW	.1	.3	.5	3.0	.2	1.3	.2	1.3	.2	1.1	.0	.3	.0	.0	1.2	7.4	13.9
CALM	.9	6.0													.9	6.0	
TOTAL	1.8	11.2	9.0	56.7	2.4	15.3	1.7	10.5	.7	4.7	.2	1.2	.1	.4	15.8	100	10.5

WIND GRAPH

TVC TRAVERSE CITY, MI

CLASS 4 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 4 / DAY

STATION NUMBER: 14850

NO. OBS.: 640

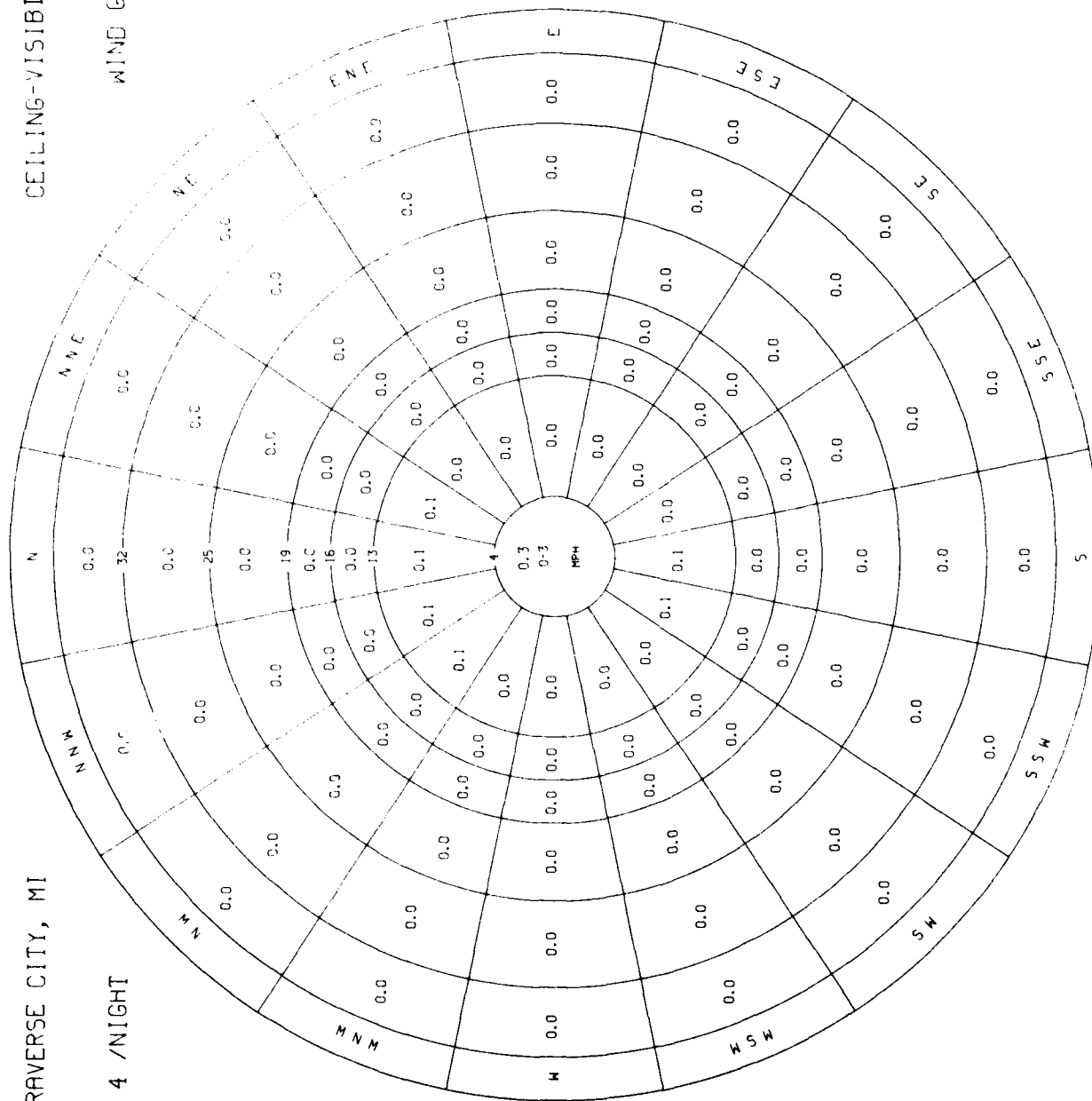
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.6	.1	5.6	.0	2.7	.0	2.2	.0	1.4	.0	.5	.0	.3	.2	14.2	12.6
NNE	.0	.9	.0	3.0	.0	1.7	.0	.3	.0	.8	.0	.2	.0	.0	.1	6.9	11.2
NE	.0	.2	.0	3.0	.0	.9	.0	.8	.0	.6	.0	.0	.0	.0	.1	5.5	11.3
ENE	.0	.2	.0	2.2	.0	.5	.0	.5	.0	.2	.0	.2	.0	.0	.0	3.6	10.9
E	.0	.8	.0	1.6	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.0	7.7
ESE	.0	.0	.0	1.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	9.7
SE	.0	.2	.0	.9	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	1.4	10.3
SSE	.0	.6	.0	1.7	.0	.5	.0	.6	.0	.3	.0	.0	.0	.0	.1	3.7	10.4
S	.0	.6	.0	3.3	.0	.5	.0	.0	.0	.3	.0	.0	.0	.0	.1	4.7	8.8
SSW	.0	.6	.0	1.7	.0	.5	.0	.8	.0	.5	.0	.2	.0	.0	.1	4.2	11.3
SW	.0	.0	.0	2.2	.0	.9	.0	.6	.0	.2	.0	.5	.0	.2	.1	4.5	13.9
WSW	.0	.2	.0	1.9	.0	.9	.0	.6	.0	1.2	.0	.2	.0	.2	.1	5.2	15.1
W	.0	.2	.0	2.0	.0	1.4	.0	.9	.0	.2	.0	.0	.0	.0	.1	4.7	12.4
WNW	.0	.3	.0	2.3	.0	1.1	.0	1.2	.0	.9	.0	.3	.0	.2	.1	6.4	14.7
NW	.0	.8	.0	3.1	.0	2.3	.0	1.1	.0	1.6	.0	.6	.0	.0	.1	9.5	14.2
NNW	.0	.5	.1	5.3	.0	1.9	.0	1.7	.0	2.2	.0	1.9	.0	.0	.2	13.4	15.2
CALM	.1	7.3													.1	7.3	
TOTAL	.2	14.8	.6	41.1	.2	16.7	.2	11.7	.1	10.5	.1	4.4	.0	.8	1.4	100	11.7

CEILING-VISIBILITY

WIND GRAPH

TVC TRAVERSE CITY, MI

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 4 / NIGHT

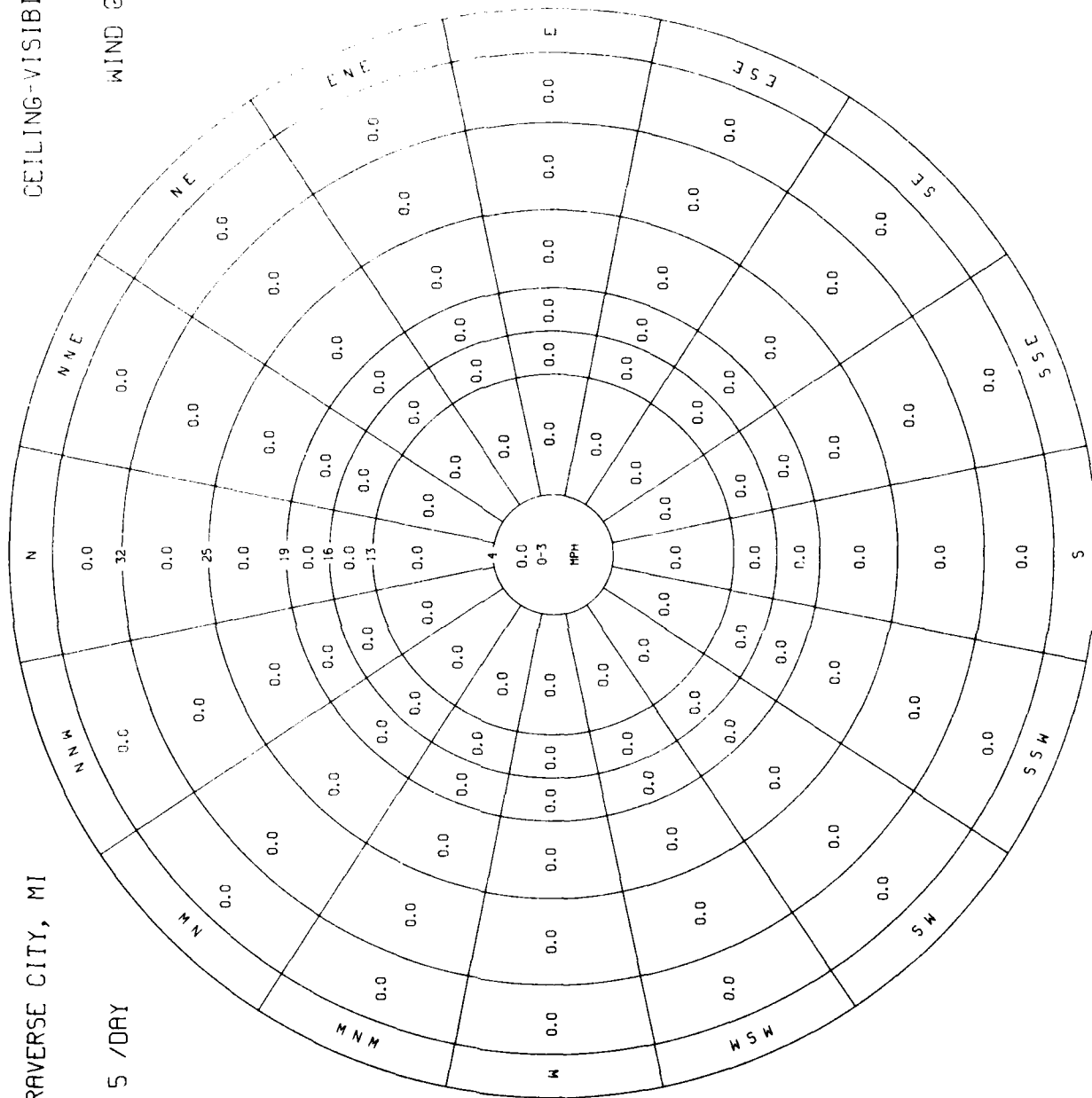
STATION NUMBER: 14850

NO. OBS.: 619

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.1	6.8	.0	1.6	.0	1.5	.0	1.6	.0	1.0	.0	.3	.2	13.1	13.7
NNE	.0	.6	.1	3.9	.0	1.1	.0	1.3	.0	.8	.0	.3	.0	.2	.1	8.2	12.5
NE	.0	1.3	.0	2.4	.0	1.0	.0	.6	.0	.8	.0	.0	.0	.0	.1	6.1	10.5
ENE	.0	.2	.0	2.4	.0	.6	.0	.2	.0	.2	.0	.2	.0	.0	.1	3.7	10.5
E	.0	1.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	4.6
ESE	.0	.0	.0	.3	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.8	12.8
SE	.0	.8	.0	1.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.7	7.9
SSE	.0	1.3	.0	2.4	.0	.3	.0	.6	.0	.0	.0	.2	.0	.2	.1	5.0	9.7
S	.0	1.1	.1	3.9	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	6.0	7.7
SSW	.0	.6	.1	4.0	.0	.3	.0	.0	.0	.2	.0	.0	.0	.0	.1	5.2	8.4
SW	.0	.8	.0	1.5	.0	.8	.0	.5	.0	.8	.0	.2	.0	.2	.1	4.7	13.3
WSW	.0	.2	.0	3.1	.0	.2	.0	.6	.0	.8	.0	.0	.0	.5	.1	5.3	14.4
W	.0	.2	.0	2.4	.0	.6	.0	.6	.0	.5	.0	.2	.0	.3	.1	4.8	14.2
WNW	.0	.0	.0	2.6	.0	.3	.0	1.5	.0	.8	.0	.6	.0	.2	.1	6.0	15.6
NW	.0	.6	.1	3.7	.0	.3	.0	2.3	.0	.8	.0	.6	.0	.2	.1	8.6	13.9
NNW	.0	.6	.1	3.7	.0	1.1	.0	1.5	.0	.8	.0	.3	.0	.6	.1	8.7	14.0
CALM	.1	8.9													.1	8.9	
TOTAL	.3	18.6	.7	45.9	.1	9.4	.2	11.8	.1	8.2	.1	3.6	.0	2.6	.1	5	100

CEILING-VISIBILITY
WIND GRAPH

TVC TRAVERSE CITY, MI
CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 5 / DAY

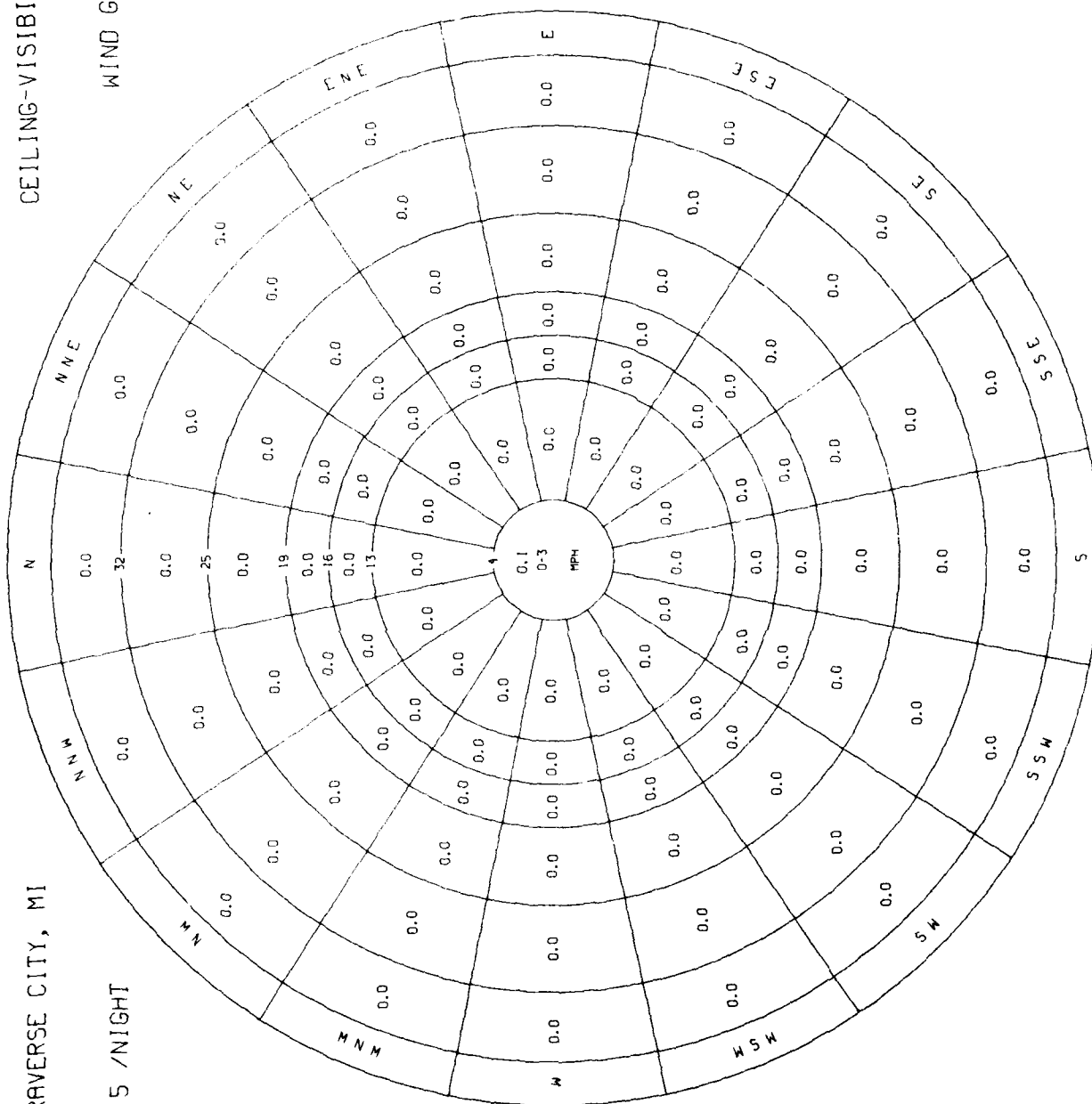
STATION NUMBER: 14850

NO. OBS.: 98

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	1.0	.0	5.1	.0	2.0	.0	1.0	.0	3.1	.0	3.1	.0	.0	.0	15.3	15.9
NNE	.0	1.0	.0	2.0	.0	1.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	7.1	14.1
NE	.0	1.0	.0	6.1	.0	2.0	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	12.2	11.6
ENE	.0	1.0	.0	3.1	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	6.1	9.0
E	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	10.0
ESE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.0
SE	.0	1.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	7.3
SSE	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	3.1	18.0
S	.0	1.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	9.0
SSW	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	8.5
SW	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	1.0	.0	2.0	.0	.0	.0	6.1	15.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	21.0
W	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	17.0
WNW	.0	1.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	5.1	10.2
NW	.0	.0	.0	2.0	.0	1.0	.0	1.0	.0	2.0	.0	1.0	.0	1.0	.0	8.2	19.5
NNW	.0	.0	.0	4.1	.0	2.0	.0	.0	.0	6.1	.0	4.1	.0	.0	.0	16.3	18.5
CALM	.0	10.2													.0	10.2	
TOTAL	.0	19.4	.1	30.6	.0	12.2	.0	8.2	.0	18.4	.0	10.2	.0	1.0	.2	100	12.9

CEILING-VISIBILITY

WIND GRAPH



TVC TRAVERSE CITY, MI

CLASS 5 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: TVC TRAVERSE CITY, MI

CLASS 5 / NIGHT

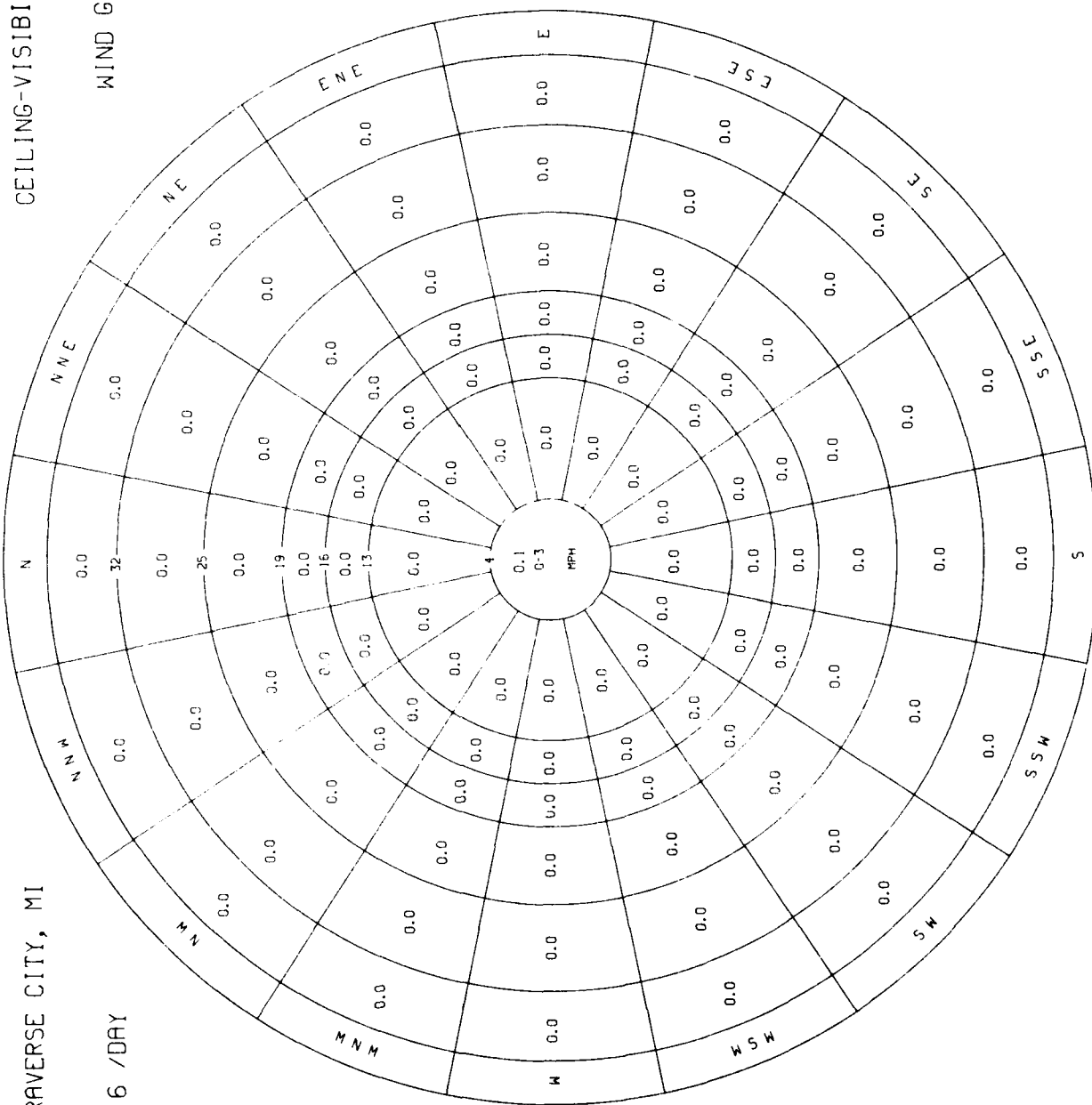
NO. OBS.: 120

STATION NUMBER: 14850

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	2.5	.0	.8	.0	3.3	.0	4.2	.0	.0	.0	.0	.0 11.7
NNE	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.8	.0 3.3
NE	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0 6.7
ENE	.0	.8	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.8
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
ESE	.0	.8	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
SE	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
SSE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
S	.0	1.7	.0	5.8	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0 9.2
SSW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
SW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0 1.7
WSW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	.0	.8	.0	.6	.0 3.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
WNW	.0	.8	.0	.8	.0	.8	.0	1.7	.0	.8	.0	.0	.0	.0	.0 5.0
NW	.0	2.5	.0	4.2	.0	.8	.0	.8	.0	.8	.0	.0	.0	.0	.0 9.2
NNW	.0	.8	.0	5.8	.0	.0	.0	2.5	.0	.0	.0	3.3	.0	1.7	.0 14.2
CALM	.1	22.5													.1 22.5
TOTAL	.1	33.3	.1	34.2	.0	3.3	.0	9.2	.0	11.7	.0	5.0	.0	3.3	.3 100
															9.9

CEILING-VISIBILITY

WIND GRAPH



TVC TRAVERSE CITY, MI

CLASS 6 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: TVC TRAVERSE CITY, MI

CLASS 6 / DAY

NO. OBS.: 105

STATION NUMBER: 14850

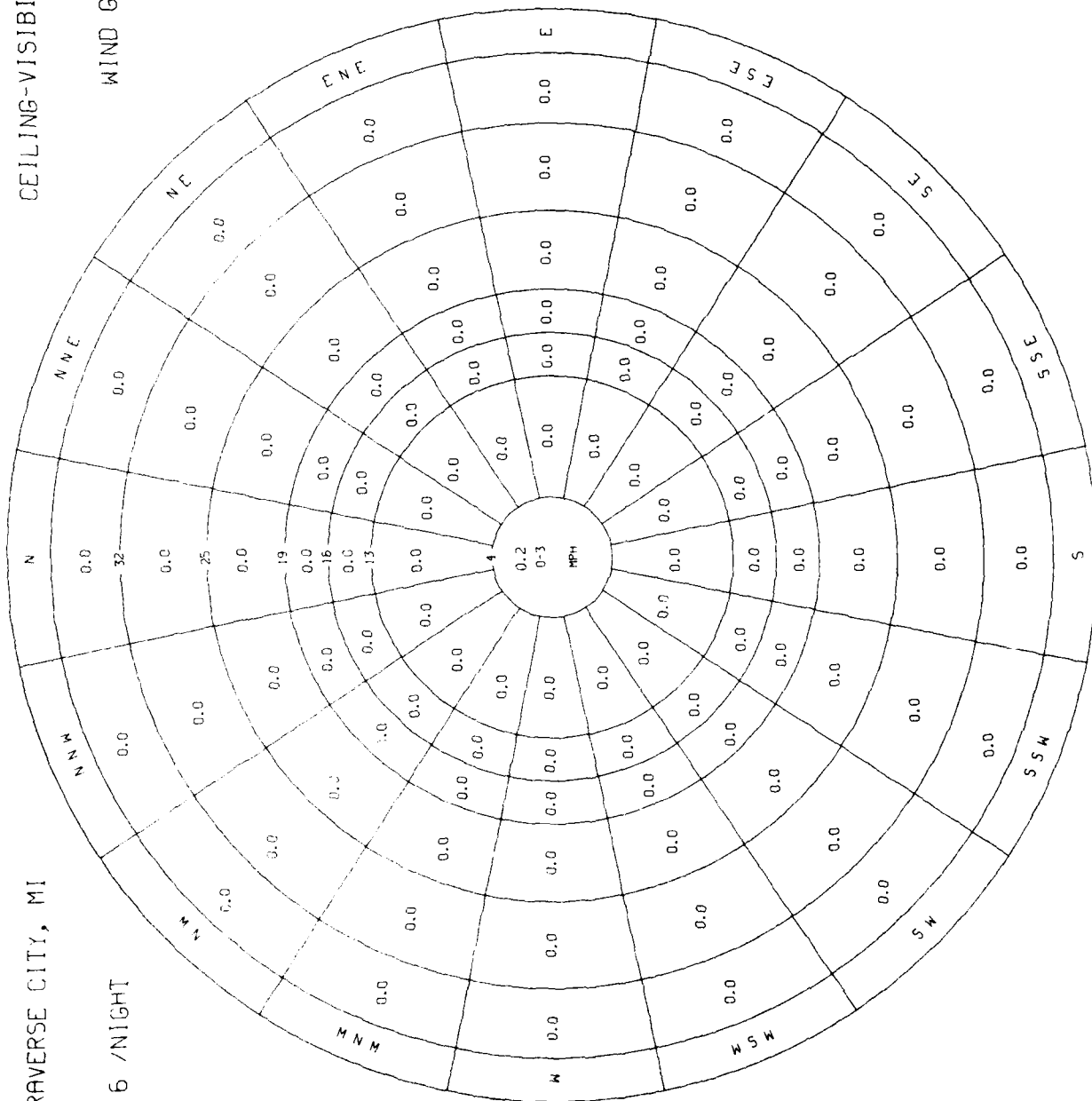
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.9	.0	3.8	.0	1.9	.0	.0	.0	1.0	.0	1.0	.0	1.9	.0	11.4	15.4
NNE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	1.9	15.5
NE	.0	3.8	.0	6.7	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	11.4	6.0
ENE	.0	1.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	5.7
E	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.0
ESE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
SE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.0
SSE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	9.0
S	.0	.0	.0	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	6.2
SSW	.0	2.9	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.0
SW	.0	1.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.3
WSW	.0	.0	.0	1.9	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	3.8	10.5
W	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.3
WNW	.0	1.9	.0	.0	.0	1.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	3.8	10.5
NW	.0	1.0	.0	2.9	.0	1.0	.0	1.0	.0	1.9	.0	1.0	.0	1.0	.0	9.5	16.8
NNW	.0	2.9	.0	3.8	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	8.6	9.4
CALM	.0	20.0													.0	20.0	
TOTAL	1	38.1	1	42.9	.0	4.8	.0	2.9	.0	5.7	.0	2.9	.0	2.9	.2	100	7.6

CEILING-VISIBILITY

WIND GRAPH

TVC TRAVERSE CITY, MI

CLASS 6 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 6 / NIGHT

STATION NUMBER: 14850

NO. OBS.: 160

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.5	.0	3.1	.0	.6	.0	.6	.0	.6	.0	1.2	.0	.6	.0 9.4
NNE	.0	1.2	.0	2.5	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0 5.0
NE	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.6
ENE	.0	.6	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0 1.9
E	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0 1.9
ESE	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .6
SE	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
SSE	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .6
S	.0	3.7	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.1
SSW	.0	.6	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.0
SW	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.6
WSW	.0	1.2	.0	1.2	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0 3.7
W	.0	1.9	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0 3.1
WNW	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0 1.2
NW	.0	3.1	.0	.6	.0	.0	.0	.6	.0	.6	.0	.6	.0	.0	.0 5.6
NNW	.0	2.5	.0	3.1	.0	1.9	.0	1.2	.0	.6	.0	1.2	.0	.0	.0 10.6
CALM	.1	30.6													.1 30.6
TOTAL	.2	56.3	.1	28.1	.0	3.1	.0	4.4	.0	3.7	.0	3.7	.0	.6	.4 100
															5.8

CEILING-VISIBILITY

WIND GRAPH

IVC TRAVERSE CITY, MI

CLASS 7

